Genome-wide SNP genotyping of wheat cultivars with the Illumina Wheat 90K array

Triticum spp. (durum, bread, emmer and einkorn wheat) – SNP genotype data

1. Dataset description

A total of 69 wheat cultivars and samples were genotyped to study their genetic diversity and population structure: 15 selected wheat cultivars, evaluated for their agronomic and quality traits, and 54 additional commercial cultivars and local samples included for comparison. The material comprised 53 durum wheat (*Triticum durum*) and 14 bread wheat (*T. aestivum*) samples, as well as one sample each of emmer (*T. dicoccum*) and einkorn (*T. monococcum*) wheat (Table 3).

Genomic DNA was extracted from young leaves with the NucleoSpin Plant II kit (Macherey-Nagel, Düren, Germany) and quantified with a Qubit 4.0 fluorometer (Qubit dsDNA BR assay, Invitrogen). The samples were genotyped with the Illumina Wheat 90K (Infinium iSelect) array (Wang et al., 2014) at SGS Institut Fresenius GmbH (Gatersleben, Germany). The array contains 81,587 single nucleotide polymorphisms (SNPs) distributed across the hexaploid wheat genome. Genotypes are reported as nucleotide calls: homozygous genotypes as the nucleotide (A, C, G, T), heterozygous genotypes as the IUPAC ambiguity code of the two alleles (R = A/G, Y = C/T, S = C/G, W = A/T, K = G/T, M = A/C) and failed calls as missing data.

Species	*Triticum durum*, *T. aestivum*, *T. dicoccum*, *T. monococcum*
Samples	69 (53 durum wheat; 14 bread wheat; 1 emmer; 1 einkorn)
DNA extraction	Young leaves; NucleoSpin Plant II (Macherey-Nagel)
Platform	Illumina Wheat 90K (Infinium iSelect) array; SGS Institut Fresenius GmbH
Markers	81,587 SNPs (41,243 polymorphic in this dataset)
Missing calls	22.4% overall

2. Applications and use of the data

Genome-wide SNP genotypes provide a high-resolution genetic fingerprint of each cultivar. The data can be used for the genetic identification of cultivars and the verification of seed identity and purity, for the estimation of genetic diversity and relatedness among durum, bread and ancient wheats, and for the study of population structure. They also allow the detection of admixture in local varieties, supporting the conservation of traditional Greek wheat genetic material. In addition, the SNPs are in linkage disequilibrium with genomic regions (QTL) that control agronomic and quality traits, so the data provide a basis for genome-wide association studies, genomic prediction and marker-assisted breeding.

3. Data summary

Table 1. SNP markers by class

SNP class	No. of SNPs	%
SNPs on the array	81,587	100.0
Polymorphic SNPs	41,243	50.6
Monomorphic SNPs	26,591	32.6
SNPs failed in all samples	13,753	16.9

Polymorphic: at least two different genotypes among the samples. Monomorphic: the same homozygous genotype in all successfully genotyped samples.

Table 2. Genotype calls by type

Genotype call	No. of calls	%
Homozygous (A, C, G, T)	4,279,248	76.0
Heterozygous (IUPAC codes R, Y, S, W, K, M)	91,539	1.6
Failed (no call)	1,258,716	22.4
Total genotype calls	**5,629,503**	**100.0**

Table 3. Genotyped samples: cultivar, wheat type, call rate and heterozygosity

No.	Cultivar / sample	Wheat type	Call rate, all SNPs (%)	Call rate, informative SNPs* (%)	Heterozygous calls (%)
1	Simeto	Durum wheat (first year)	76.8	92.4	1.87
2	Monastir	Durum wheat (first year)	77.1	92.7	1.89
3	Maestrale	Durum wheat (first year)	77.0	92.6	1.69
4	Svevo	Durum wheat (first year)	76.9	92.5	2.60
5	Marco Aurelio	Durum wheat (first year)	76.9	92.5	2.10
6	Canavaro	Durum wheat (first year)	76.9	92.5	2.52
7	Vendeta	Durum wheat (first year)	76.7	92.3	1.70
8	Mexicali	Durum wheat (first year)	76.7	92.3	1.85
9	Elpida	Durum wheat (first year)	76.7	92.3	1.86
10	Lemnos 1	Durum wheat (first year)	76.9	92.5	1.84
11	Meridiano	Durum wheat (first year)	76.9	92.5	1.66
12	Anna	Durum wheat (second year)	77.2	92.9	1.95
13	Zoe	Durum wheat (second year)	77.0	92.6	2.03
14	Sifnos	Durum wheat (second year)	77.1	92.7	1.65
15	Thrakis	Durum wheat (first year)	77.0	92.6	1.66
16	Egeo	Durum wheat (first year)	77.1	92.7	1.80
17	Secolo	Durum wheat (first year)	76.5	92.1	1.76
18	Grecale	Durum wheat (first year)	76.5	92.0	2.06
19	Pigreco	Durum wheat (first year)	76.2	91.7	2.61
20	Zeta E	Durum wheat (first year)	77.0	92.6	2.05
21	Athos	Durum wheat (second year)	76.8	92.4	1.73
22	Aias	Durum wheat (second year)	76.4	91.9	5.00
23	Electra	Durum wheat (second year)	76.8	92.4	1.74
24	Kallithea	Durum wheat (second year)	76.7	92.2	2.04
25	Lemnos 2	Durum wheat (second year)	76.6	92.1	1.87
26	Macedonia	Durum wheat (second year)	76.8	92.3	1.70
27	Papadakis	Durum wheat (second year)	76.9	92.5	1.73
28	Pontos	Durum wheat (second year)	76.7	92.3	2.51
29	Salamina	Durum wheat (second year)	76.7	92.2	1.84
30	Santa	Durum wheat (second year)	76.0	91.4	2.80
31	Selini	Durum wheat (second year)	76.7	92.2	1.70
32	Sellas	Durum wheat (second year)	76.4	91.9	5.23
33	Serifos	Durum wheat (second year)	76.0	91.4	2.89
34	Skiathos 2	Durum wheat (second year)	76.9	92.5	1.87
35	Skiti	Durum wheat (second year)	76.9	92.5	2.30
36	Smalto 3	Durum wheat (second year)	76.9	92.5	1.85
37	Smaragdi	Durum wheat (second year)	76.8	92.4	1.89
38	Sounio	Durum wheat (second year)	76.4	91.9	1.92
39	Sparti	Durum wheat (second year)	76.7	92.2	2.90
40	Sperchios	Durum wheat (second year)	76.7	92.2	1.79
41	Simi	Durum wheat (second year)	76.9	92.5	1.93
42	Siros	Durum wheat (second year)	82.6	99.3	0.12
43	Gegora	Bread wheat	81.6	98.2	0.30
44	Generozo E	Bread wheat	82.6	99.3	0.14

No.	Cultivar / sample	Wheat type	Call rate, all SNPs (%)	Call rate, informative SNPs* (%)	Heterozygous calls (%)
45	Gogas 2	Bread wheat	82.5	99.2	0.16
46	Doirani	Bread wheat	82.3	99.0	0.25
47	Dodoni	Bread wheat	82.3	99.0	0.36
48	Elisavet	Bread wheat	82.7	99.5	0.09
49	Loudias	Bread wheat	82.5	99.2	0.67
50	Nestos	Bread wheat	82.4	99.1	0.15
51	Orfeas	Bread wheat	82.4	99.1	0.19
52	Pegasos	Bread wheat	82.4	99.1	0.29
53	Tritonas	Bread wheat	76.4	91.9	2.05
54	Oropos	Bread wheat	76.6	92.2	1.68
55	Dunavis	Durum wheat (first year)	76.8	92.3	1.64
56	Adone	Durum wheat (first year)	76.5	92.1	2.72
57	Vaios	Durum wheat (first year)	76.5	92.0	2.82
58	Santogral	Durum wheat (first year)	76.7	92.2	1.78
59	Timaios	Durum wheat (first year)	76.6	92.1	2.03
60	Bricante	Durum wheat (first year)	76.4	91.9	2.42
61	Malako asprositaro	Bread wheat	78.5	94.4	13.27
62	Malako oreino Dilofou	Bread wheat	81.4	97.9	0.42
63	Palaio skliro	Durum wheat (first year)	75.7	91.1	2.19
64	Skliro Deveta Dilofou	Durum wheat (first year)	75.5	90.8	9.51
65	Triticum dicoccum Dilofou	Emmer wheat	76.3	91.7	3.38
66	Triticum monococcum Dilofou	Einkorn wheat	71.0	85.4	2.97
67	Lemnos 3	Durum wheat (first year)	76.8	92.4	1.67
68	Lemnos 4	Durum wheat (first year)	79.5	95.6	2.64
69	Lemnos 5	Durum wheat (first year)	76.8	92.4	1.81

** Excluding the 13,753 SNPs that failed in all samples. Durum wheat (first/second year) as designated in the field evaluation. Call rates are higher in bread wheat, because a part of the array SNPs is located on the D genome, which is absent from durum wheat.*

4. Raw genotype data

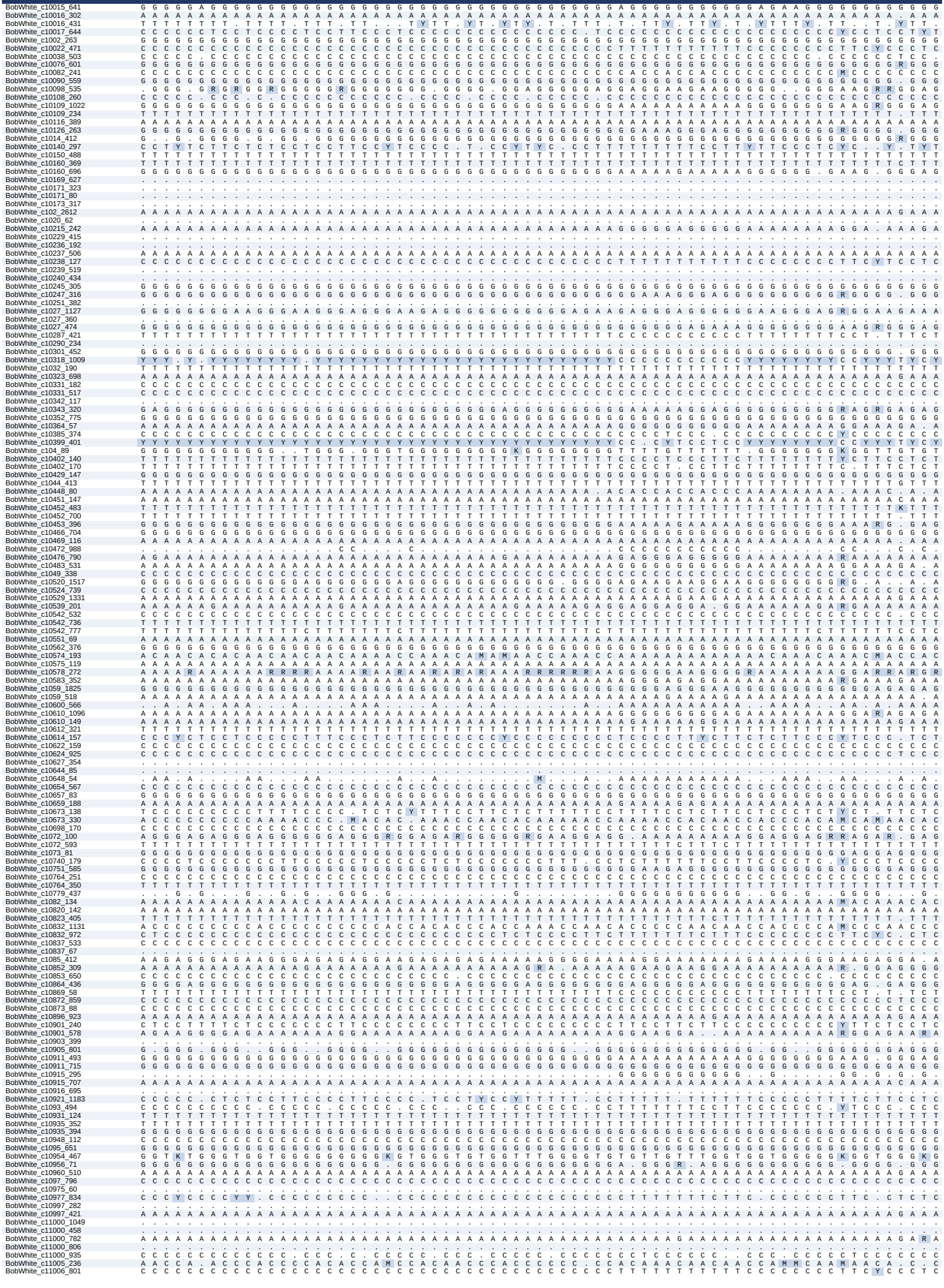
The complete genotype data (69 samples × 81,587 SNPs) are given in Appendix A. Each row corresponds to one SNP (Illumina SNP name) and each column to one sample, numbered as in Table 3. Genotype codes: A, C, G, T = homozygous; R, Y, S, W, K, M = heterozygous (IUPAC codes); . = failed call.

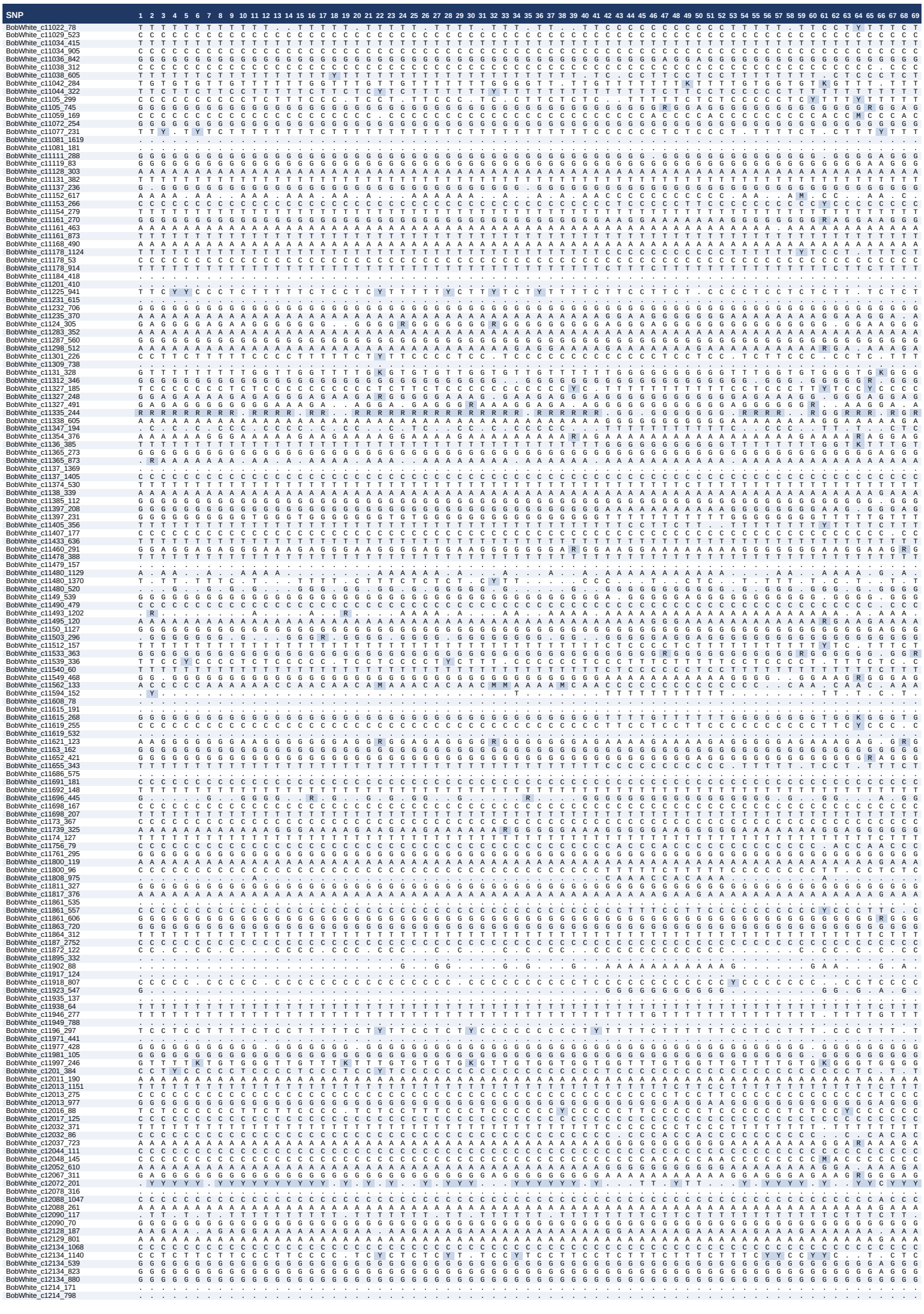
References

Wang S., Wong D., Forrest K., Allen A., Chao S., Huang B.E., et al. (2014). Characterization of polyploid wheat genomic diversity using a high-density 90 000 single nucleotide polymorphism array. *Plant Biotechnology Journal* 12: 787–796. https://doi.org/10.1111/pbi.12183

Appendix A. Complete SNP genotype data

69 samples x 81,587 SNPs (Illumina 90K iSelect array). A, C, G, T = homozygous; R, Y, S, W, K, M = heterozygous (IUPAC, light blue); . = failed call.

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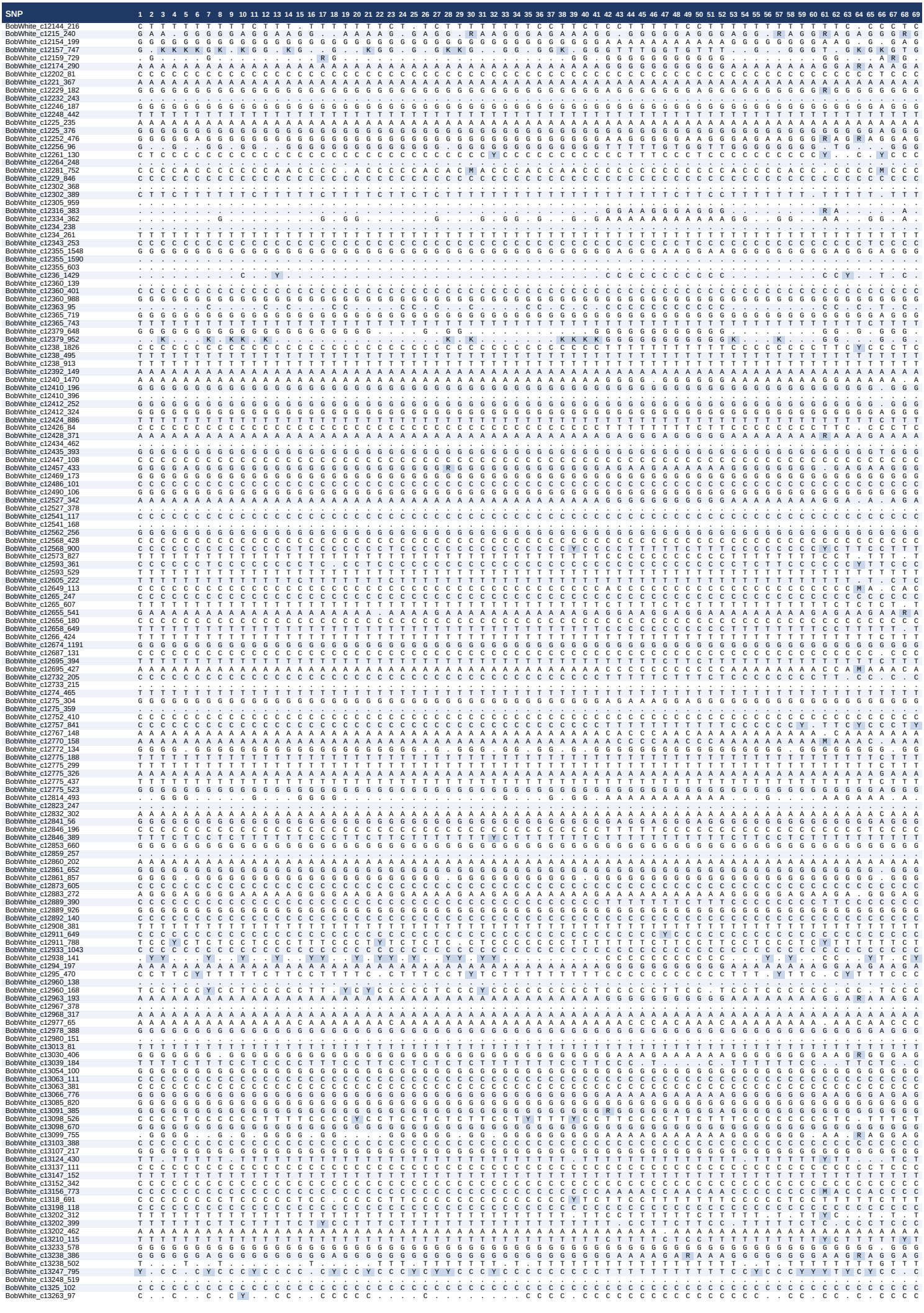
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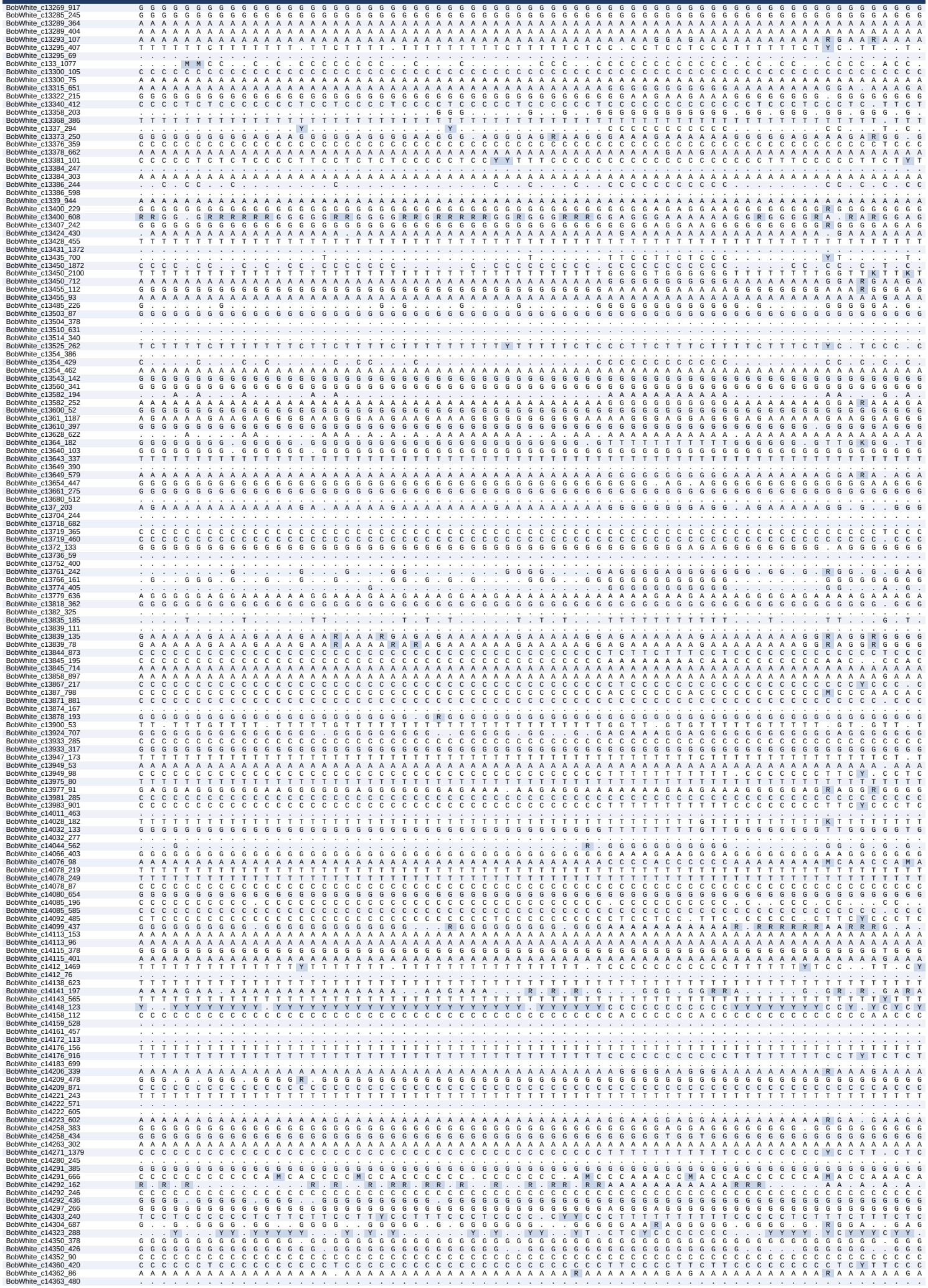
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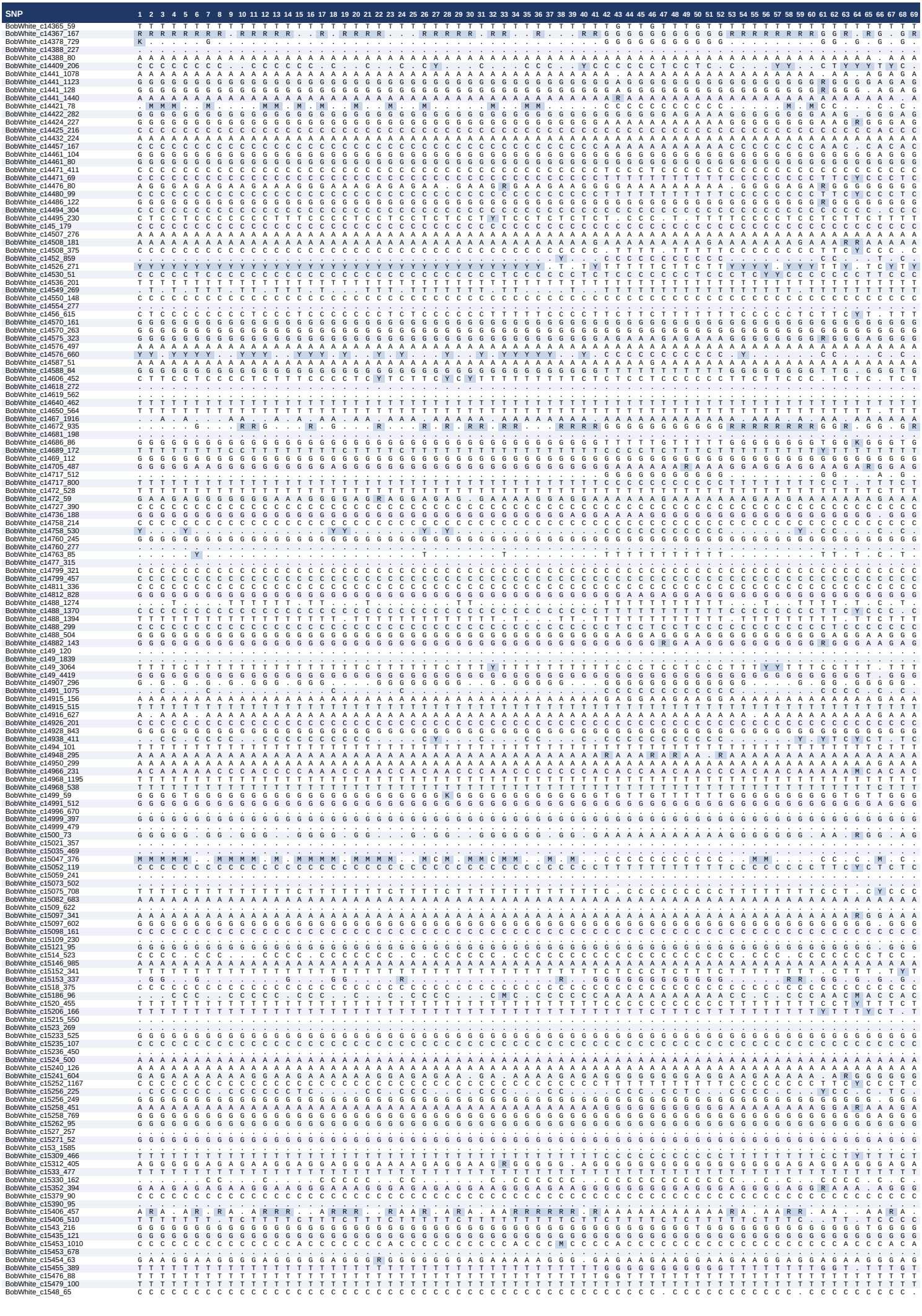
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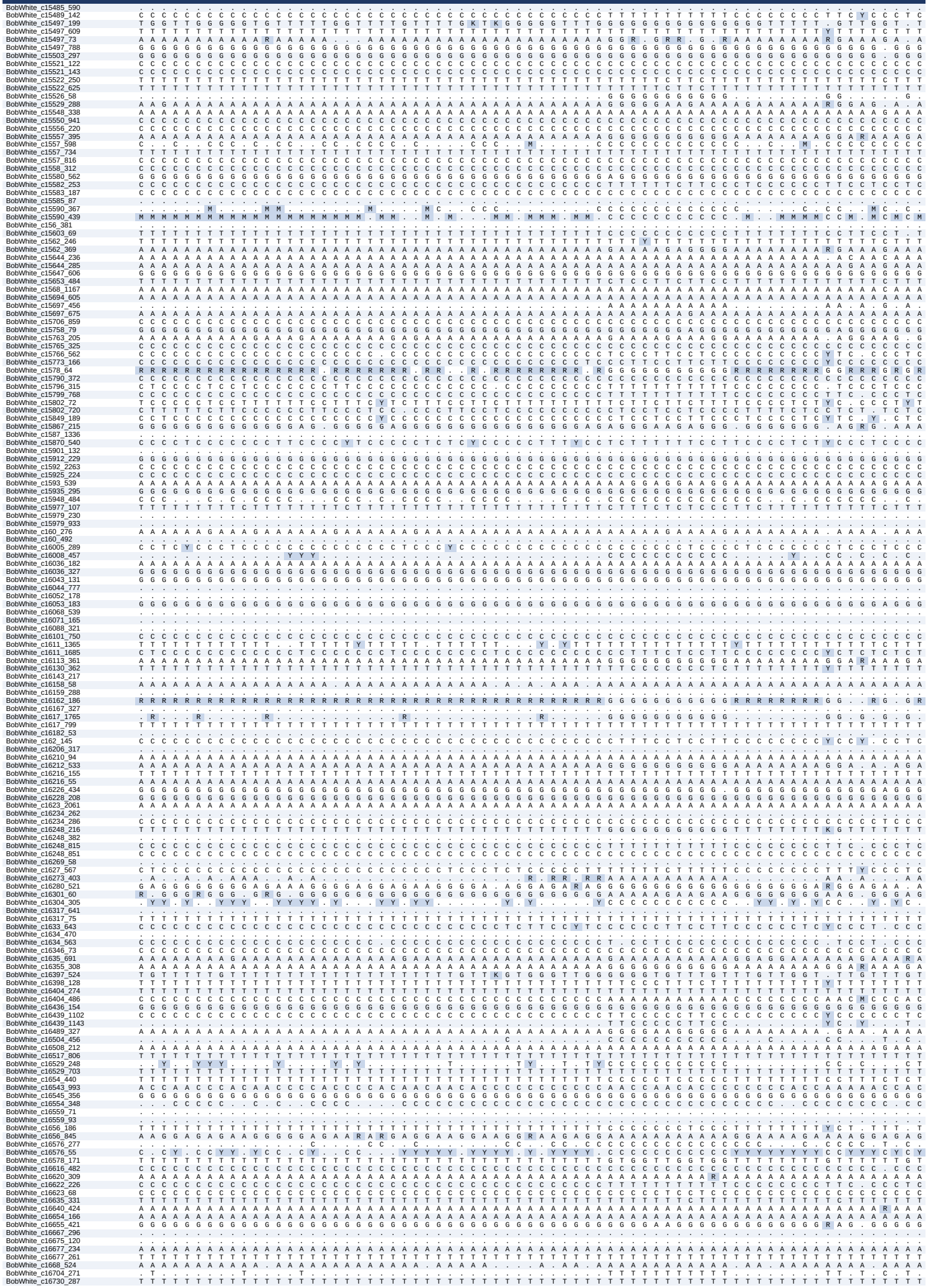
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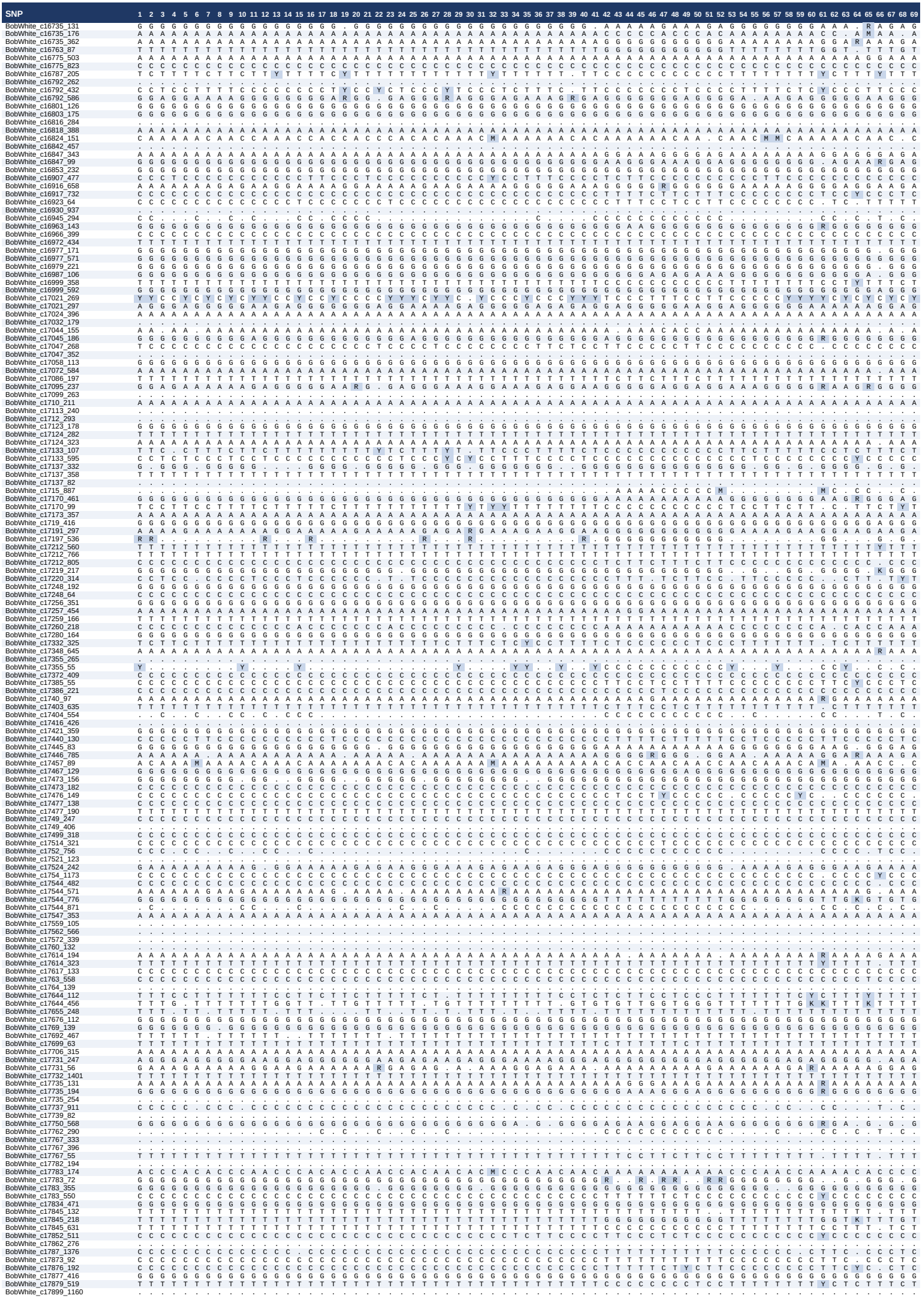
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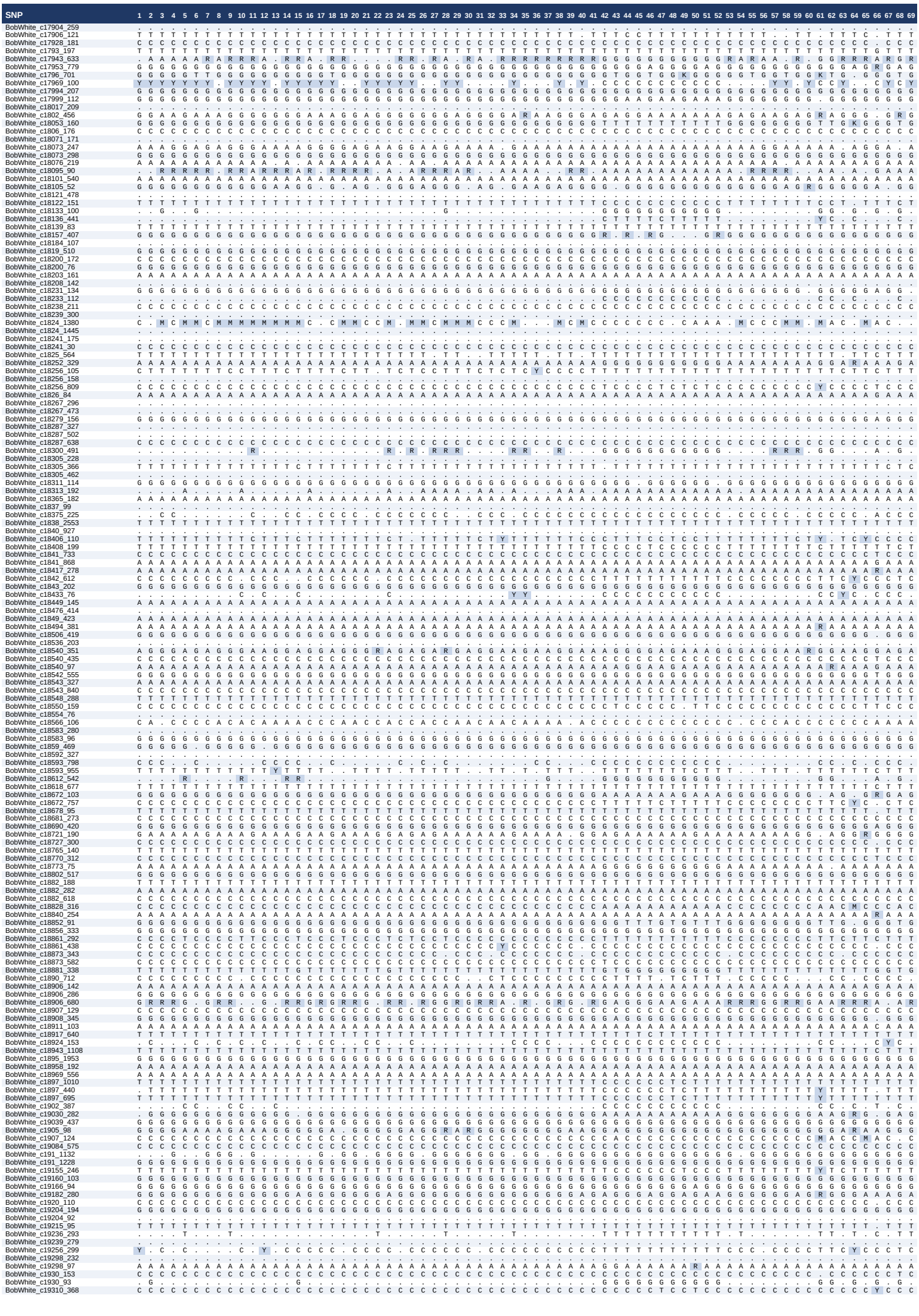
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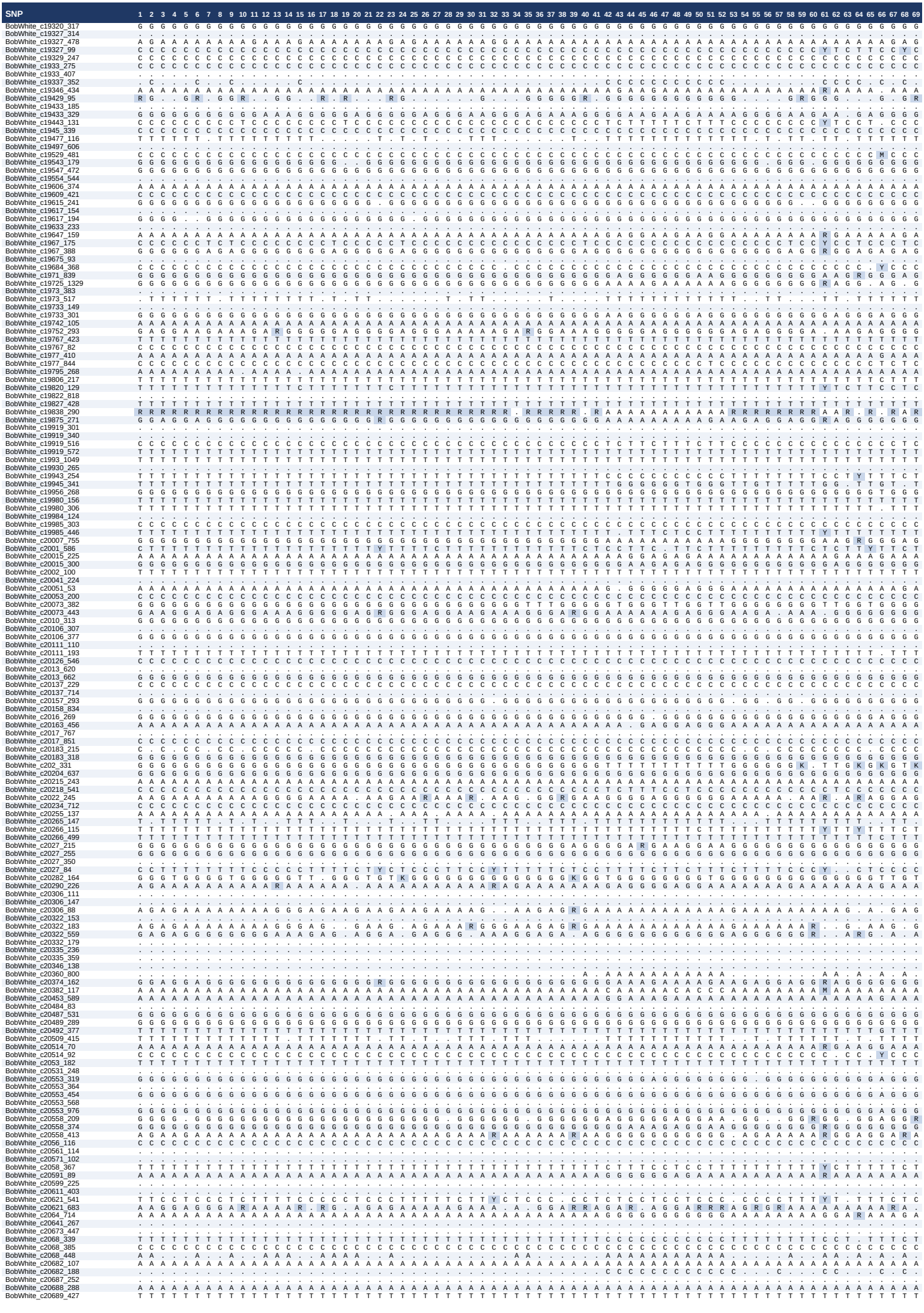
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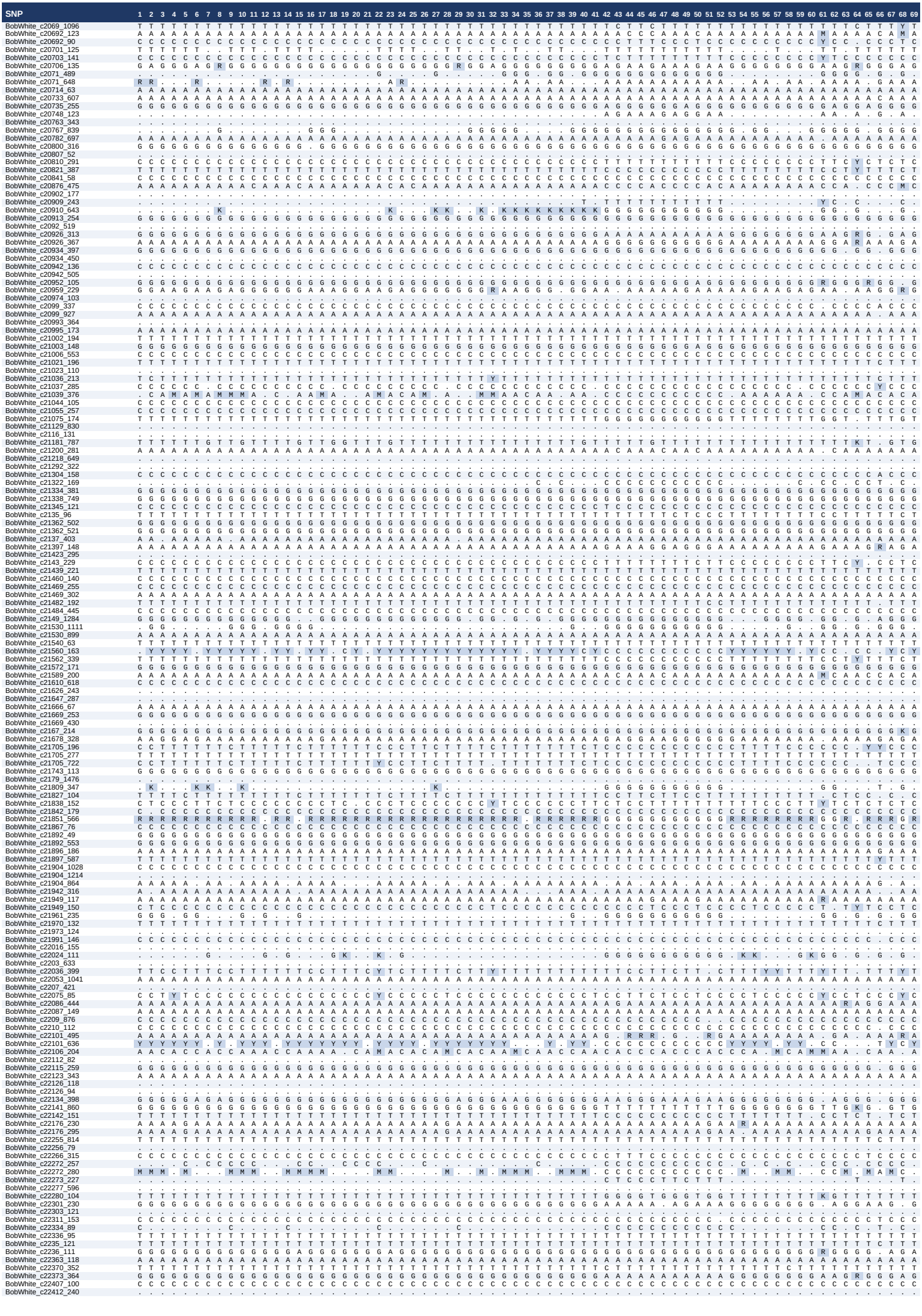
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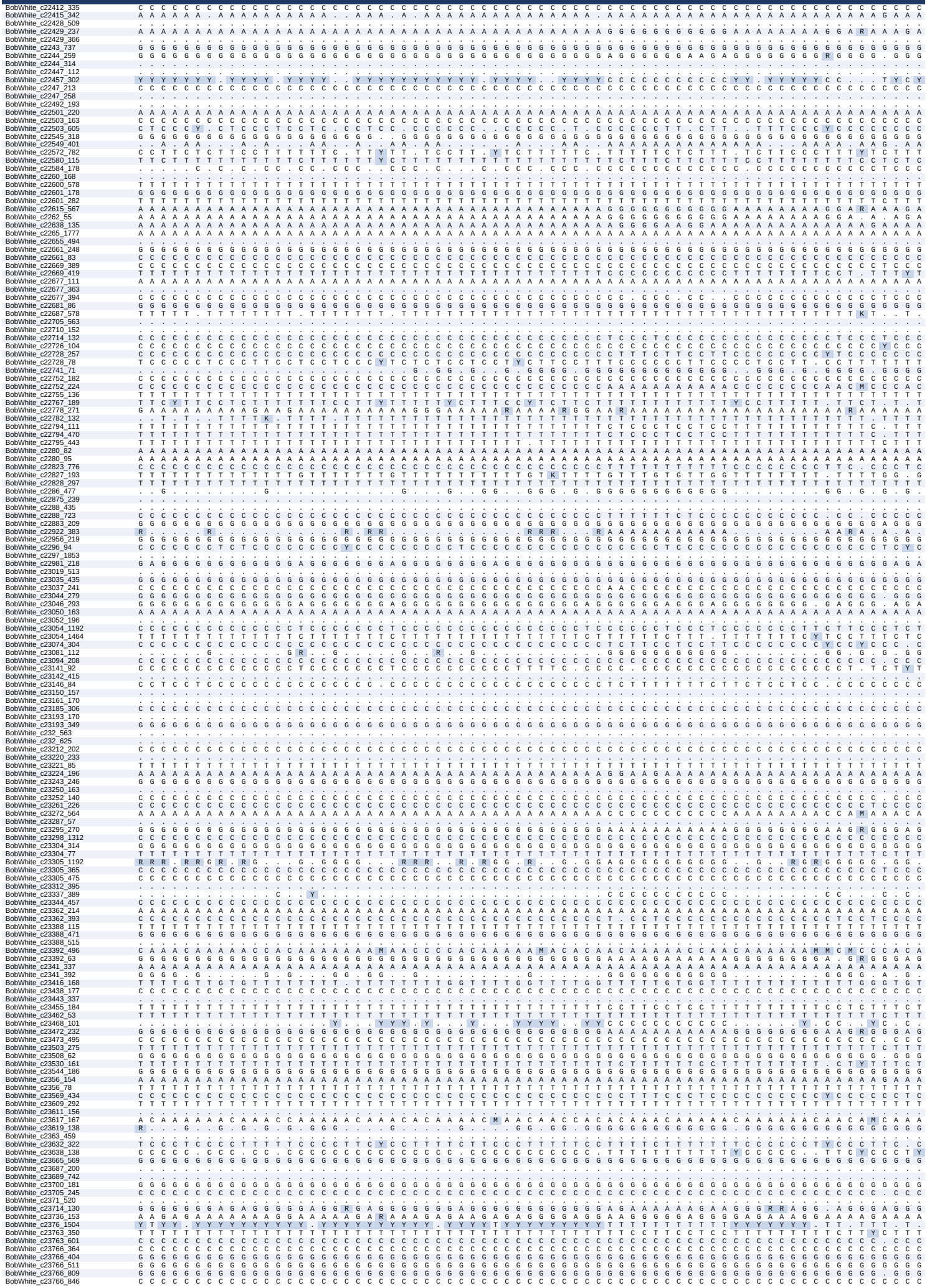
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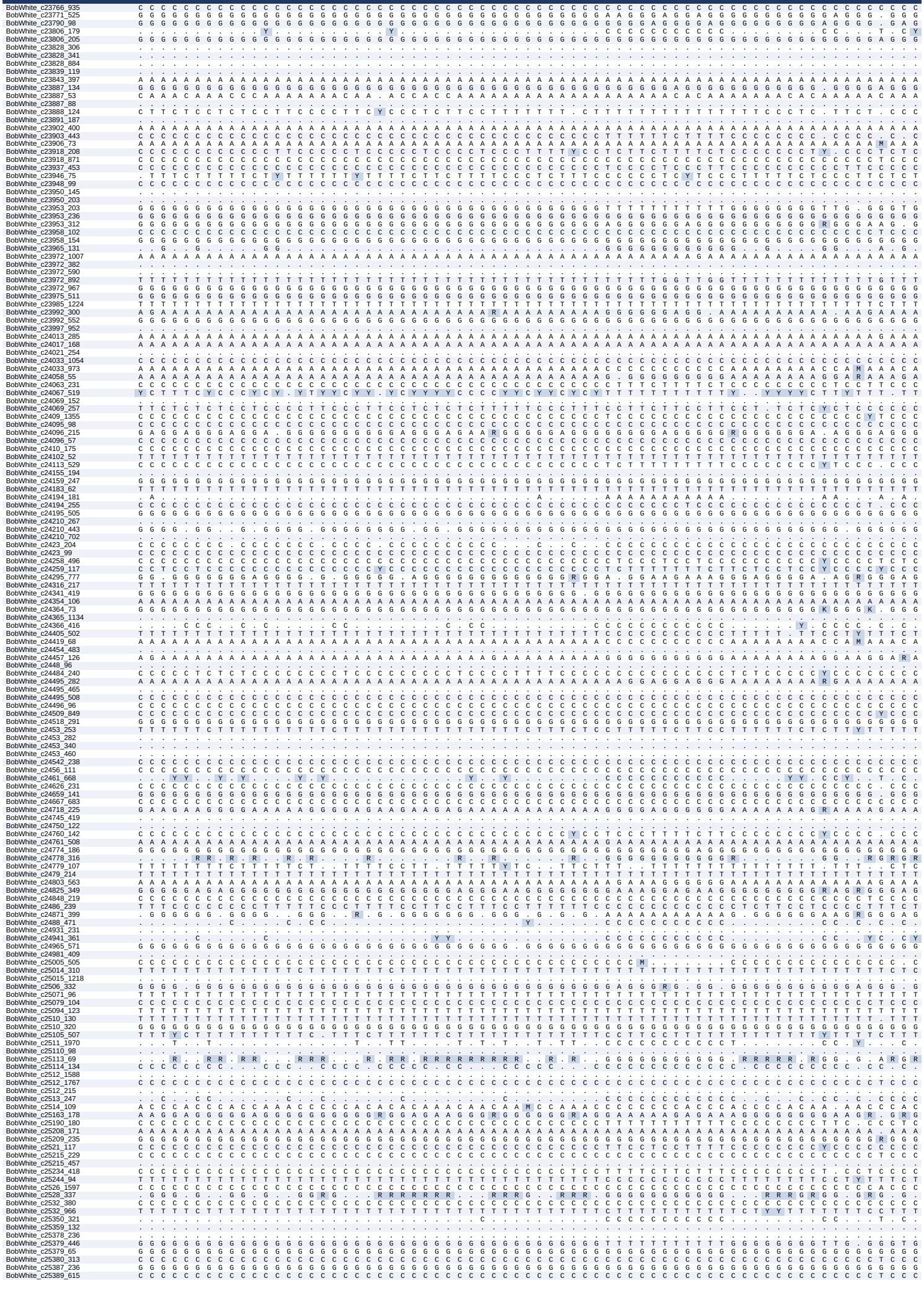
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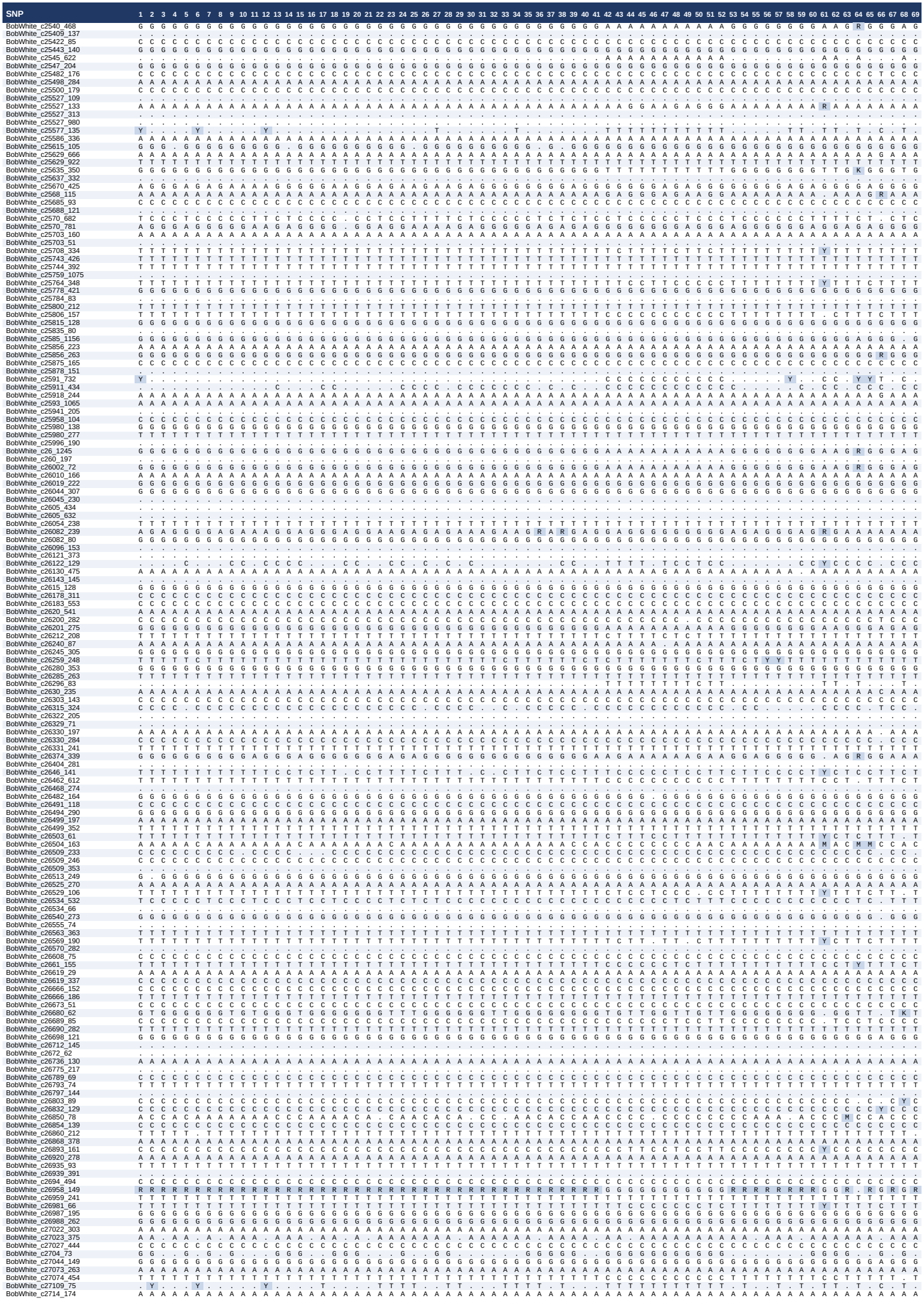
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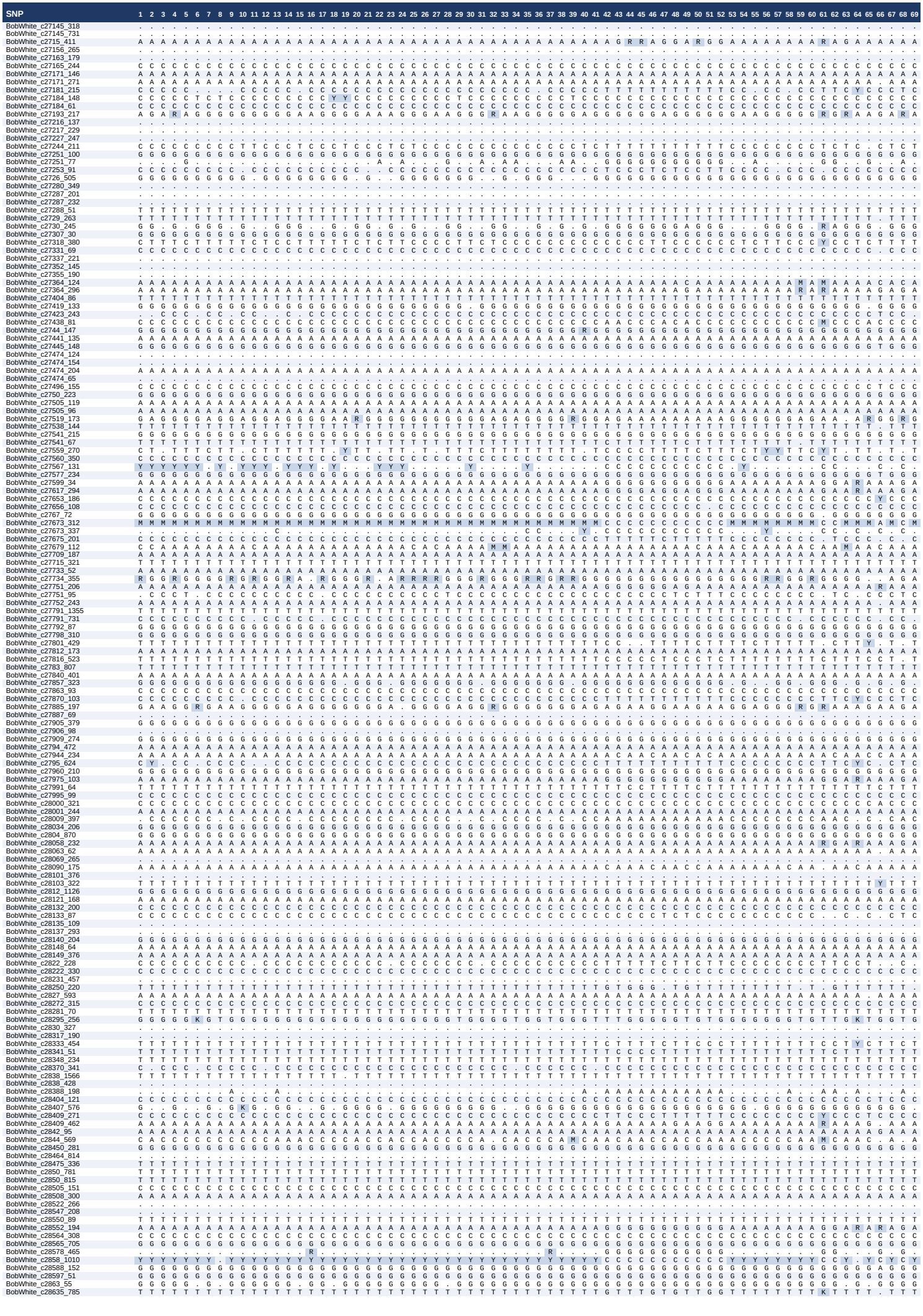
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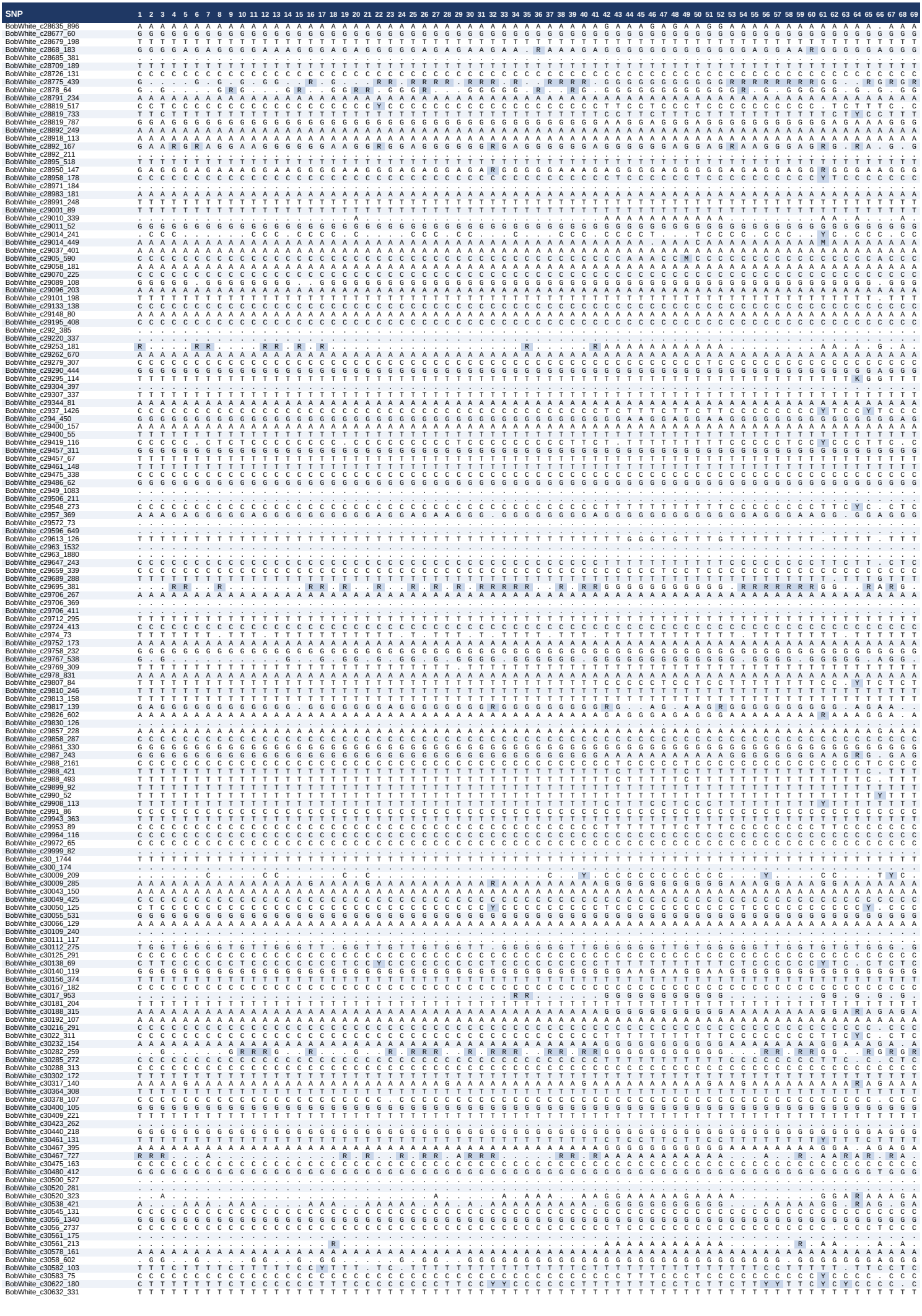
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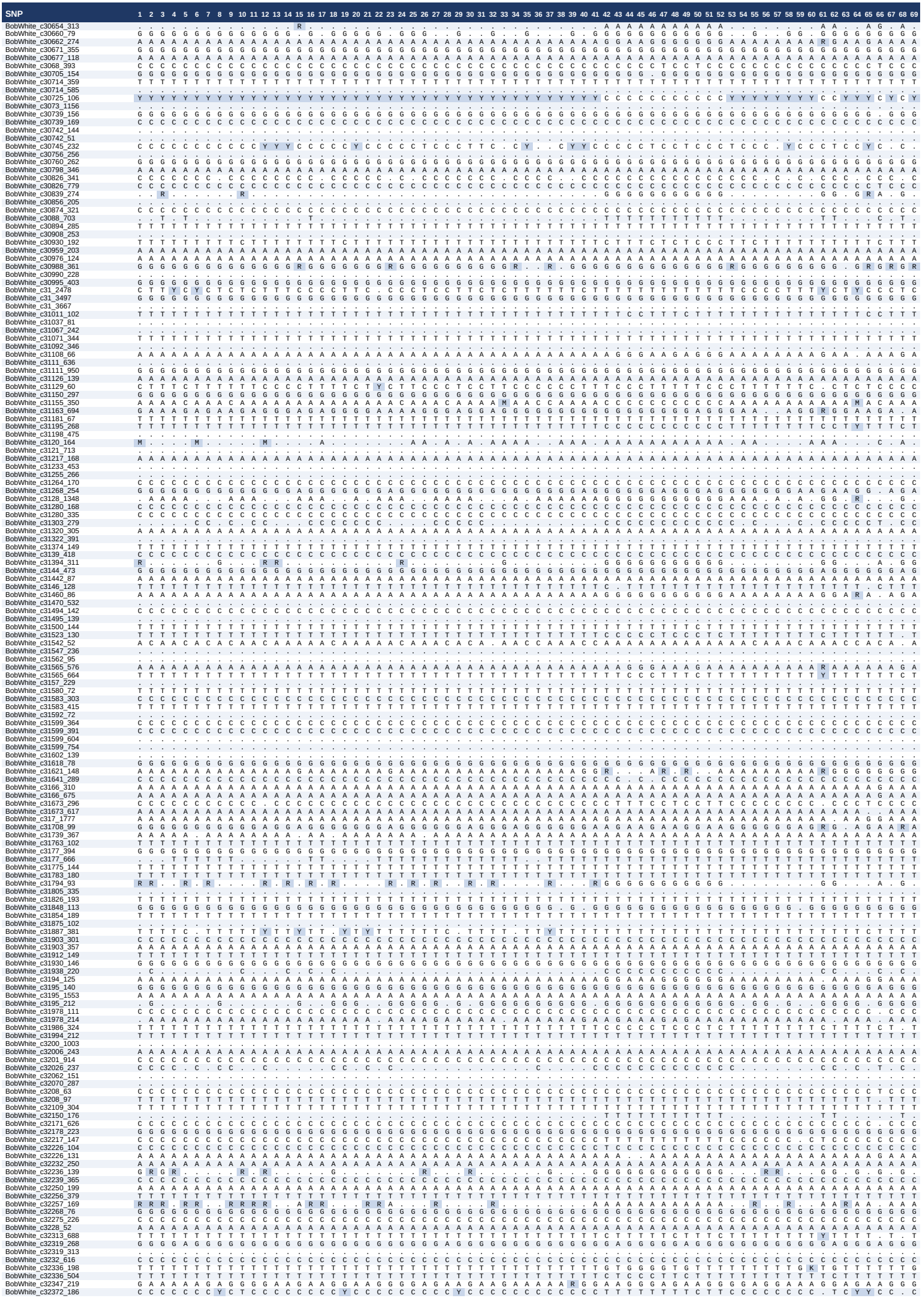
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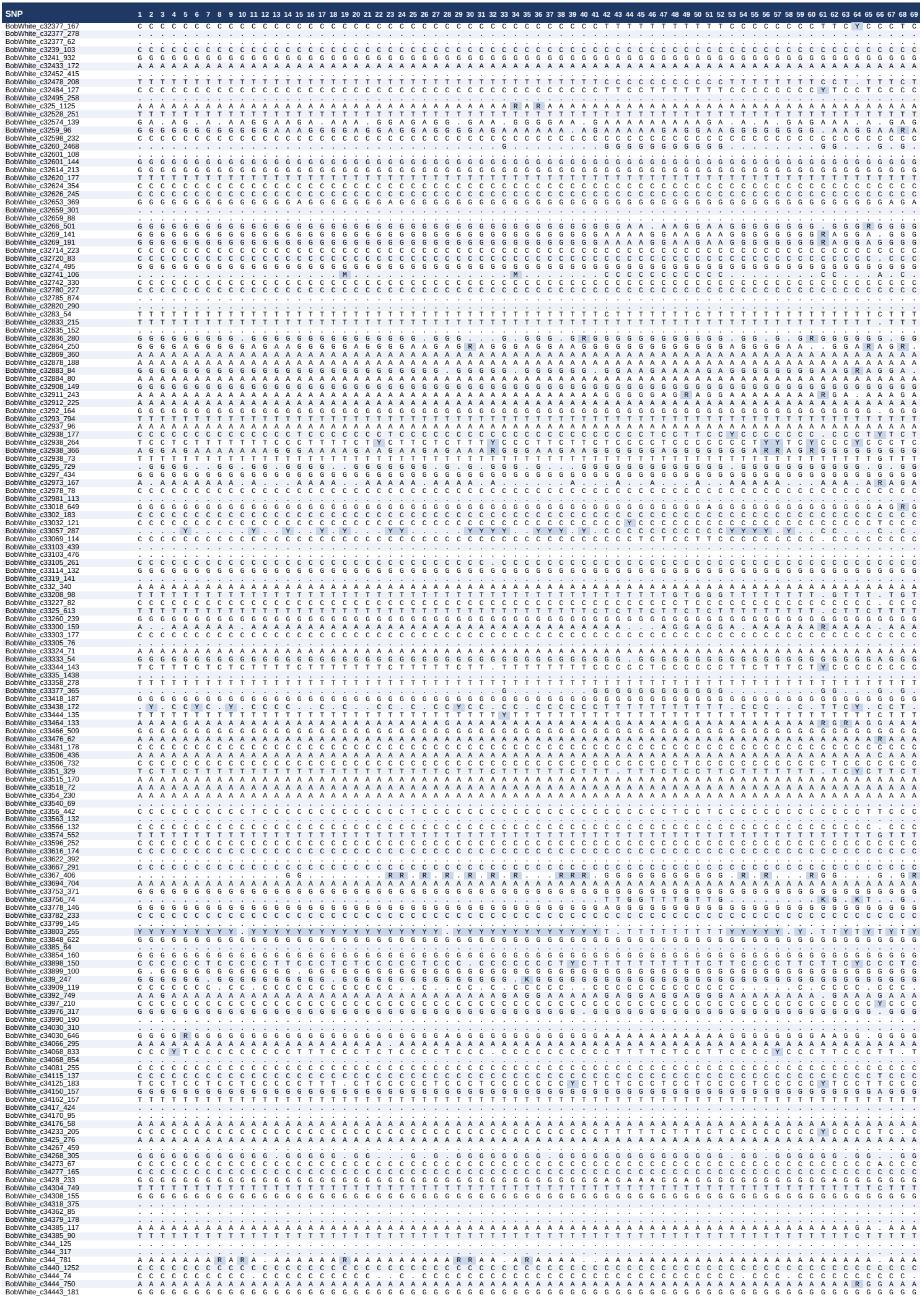
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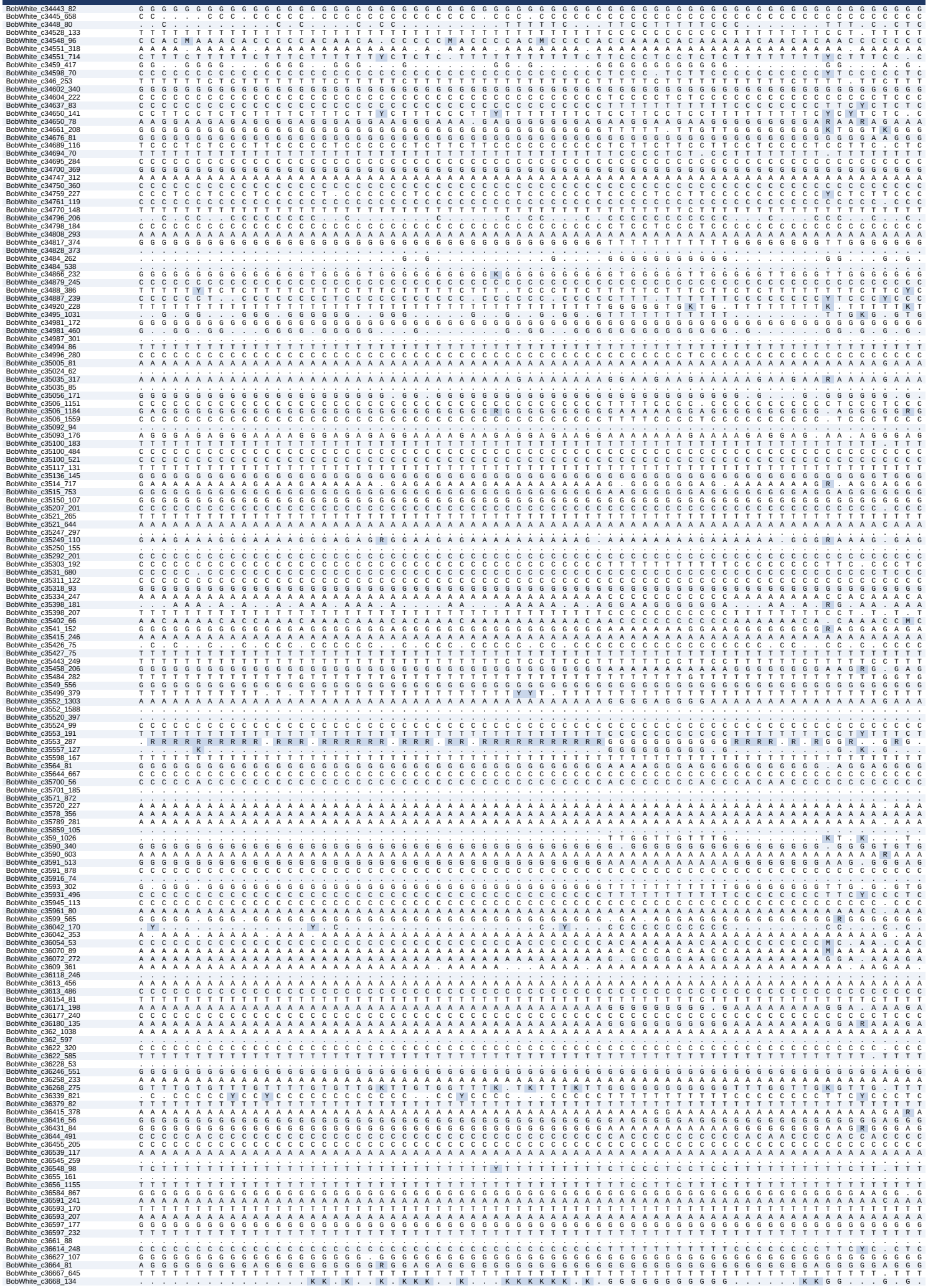
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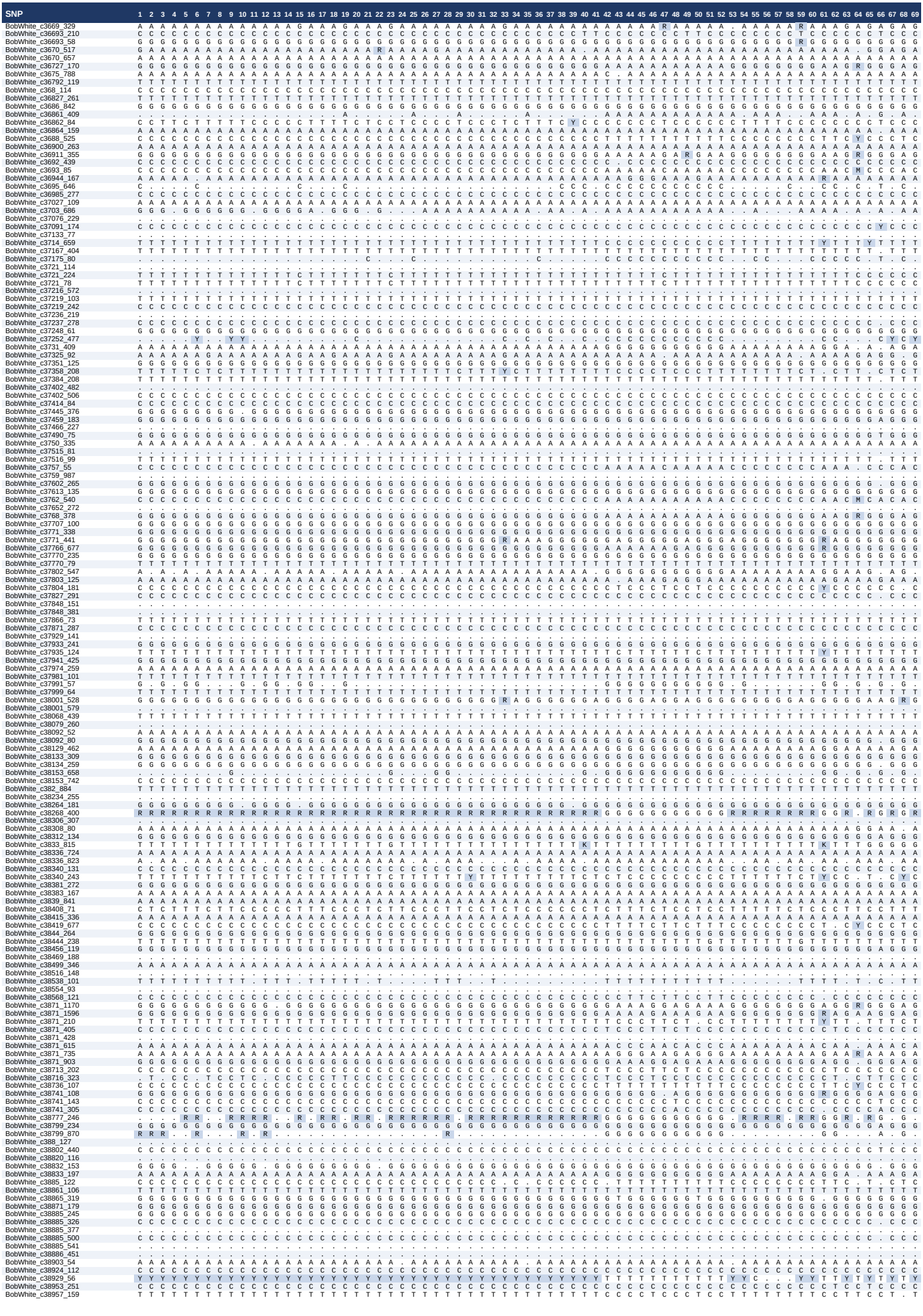
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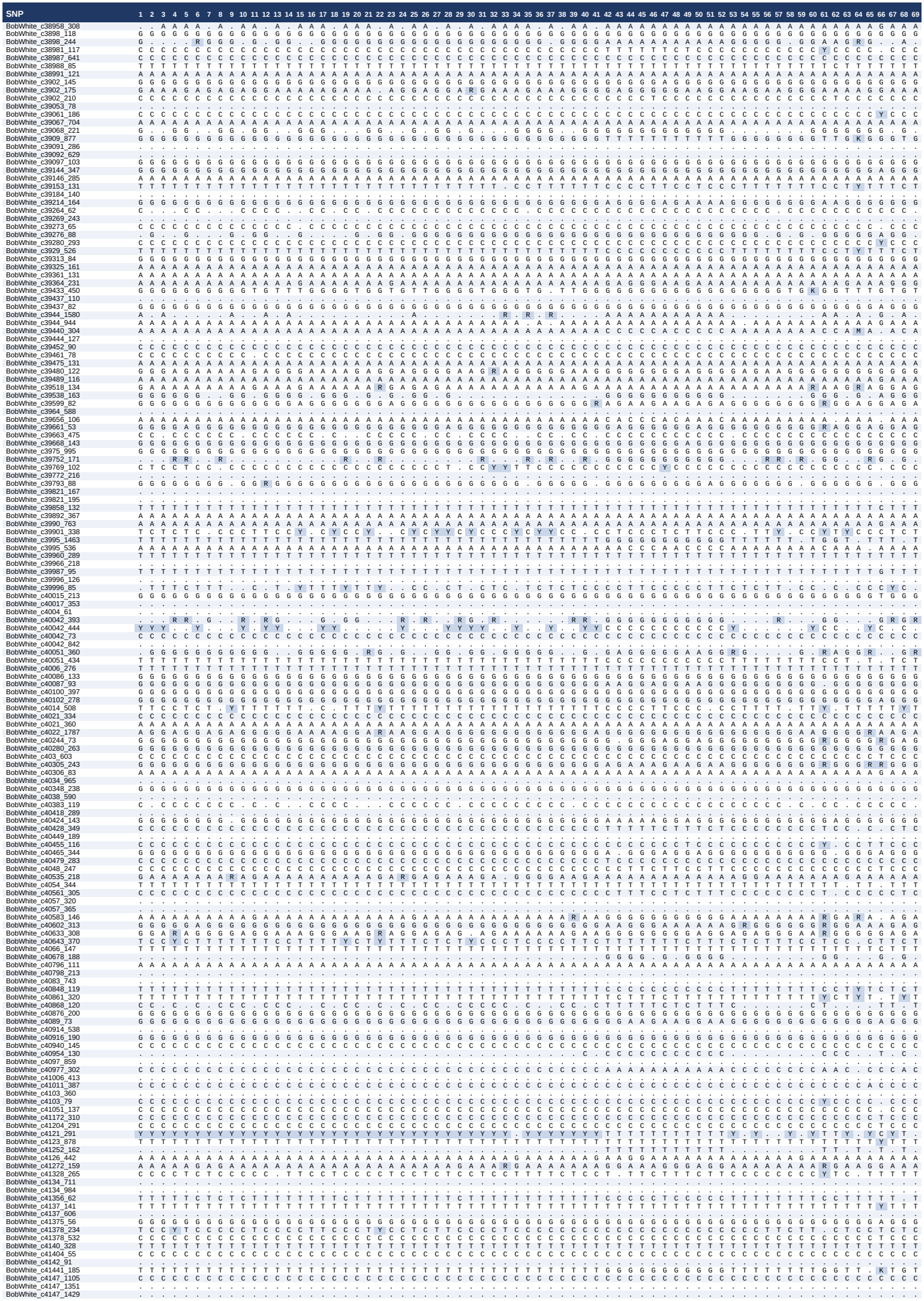
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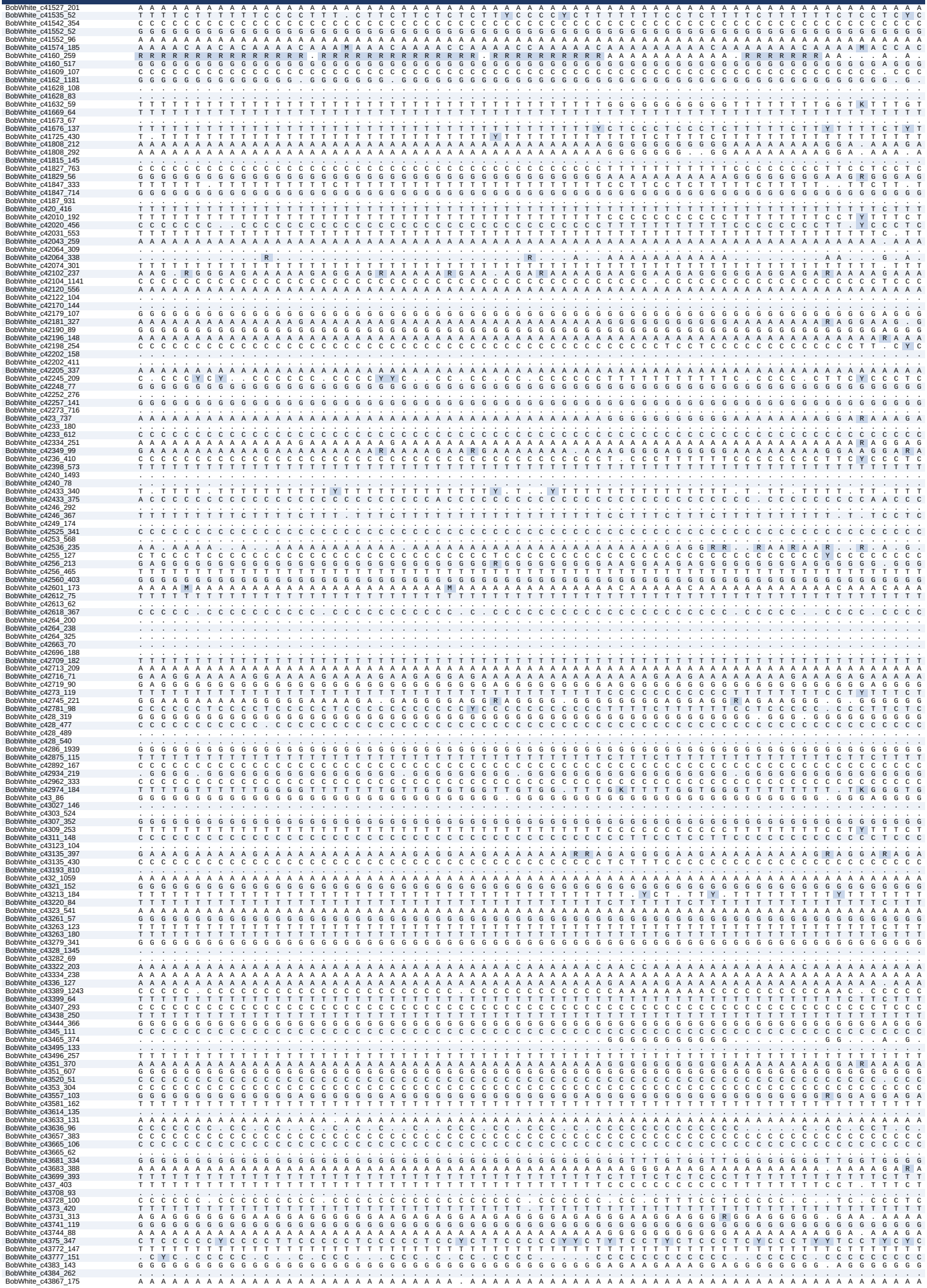
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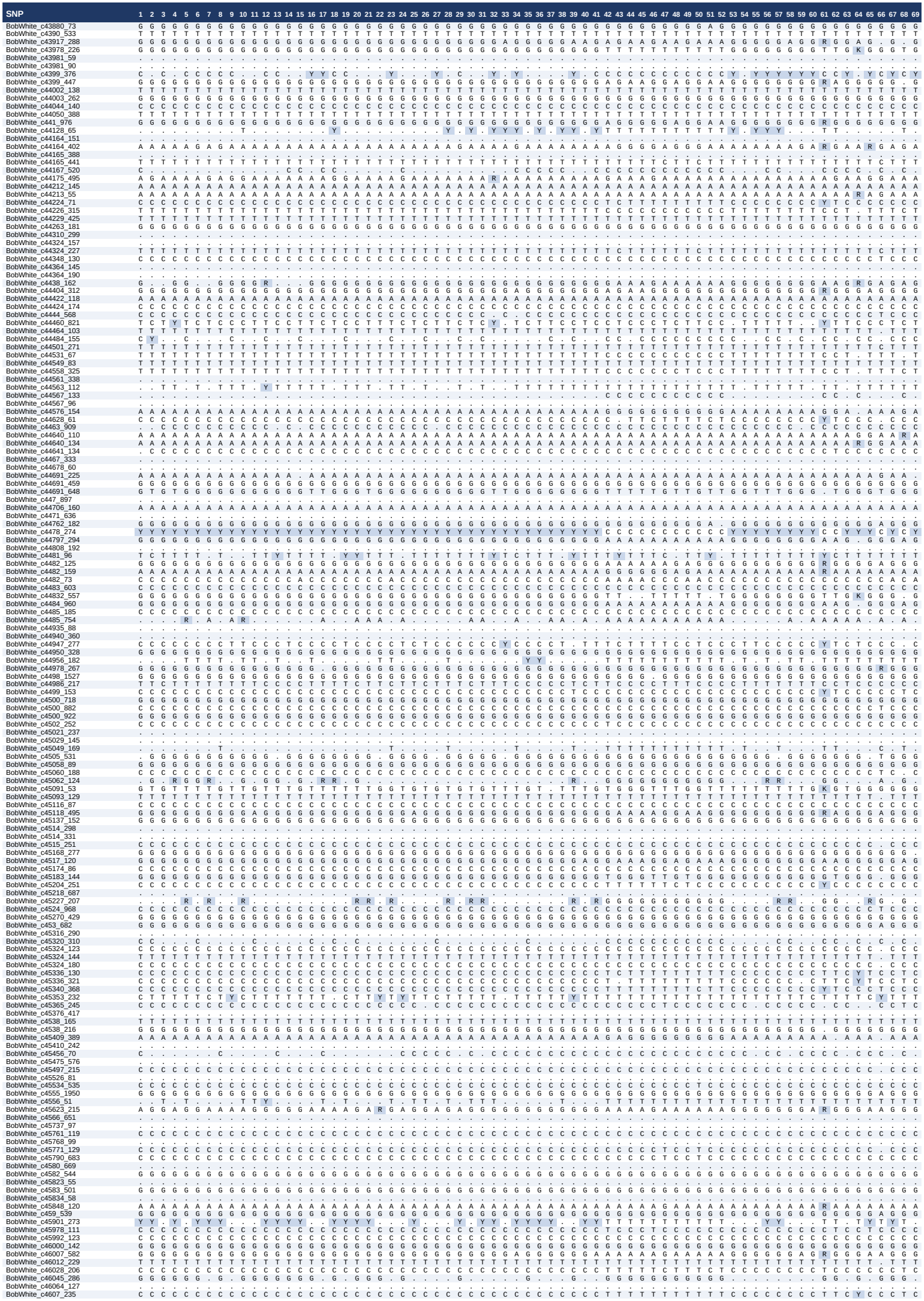
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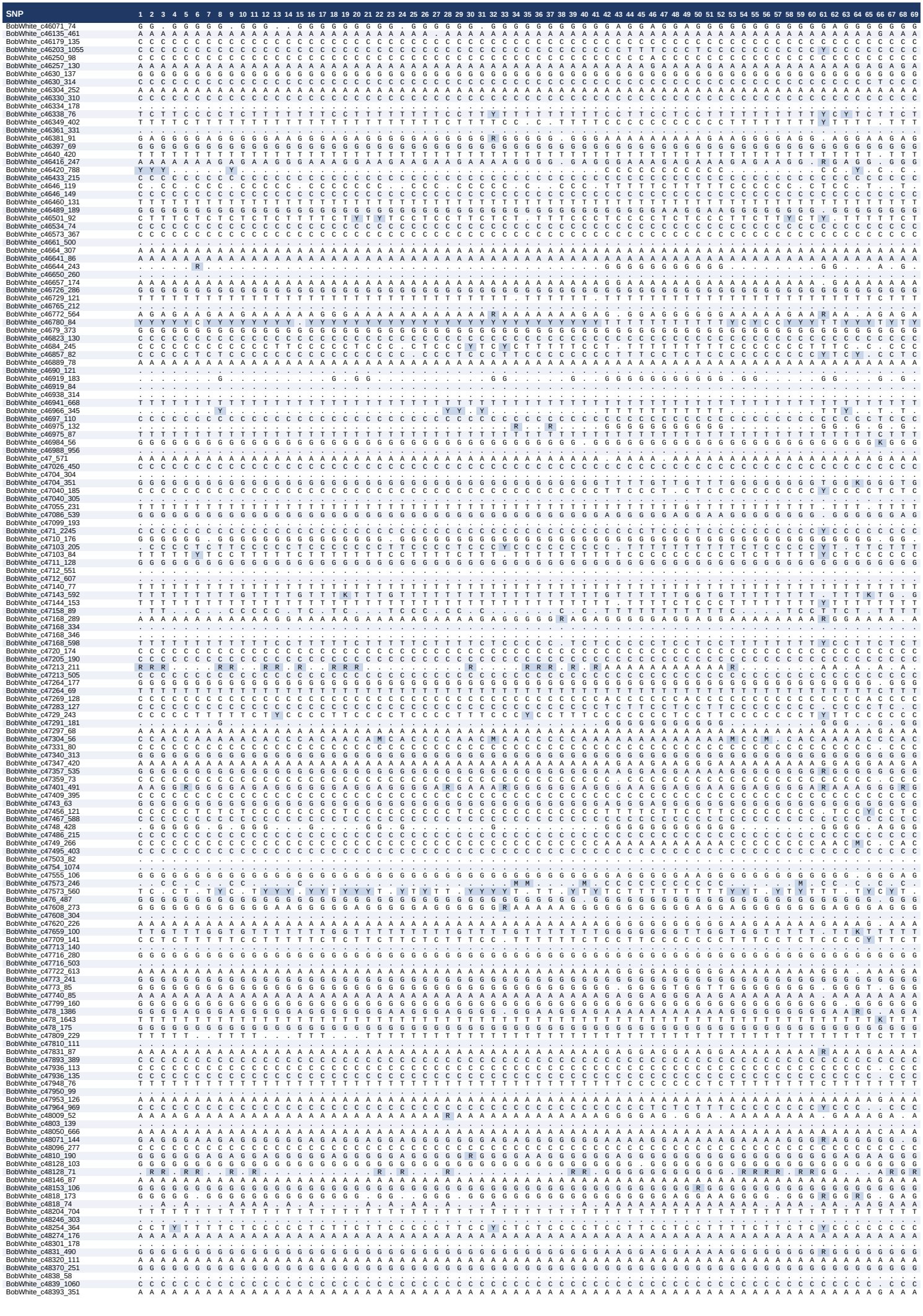
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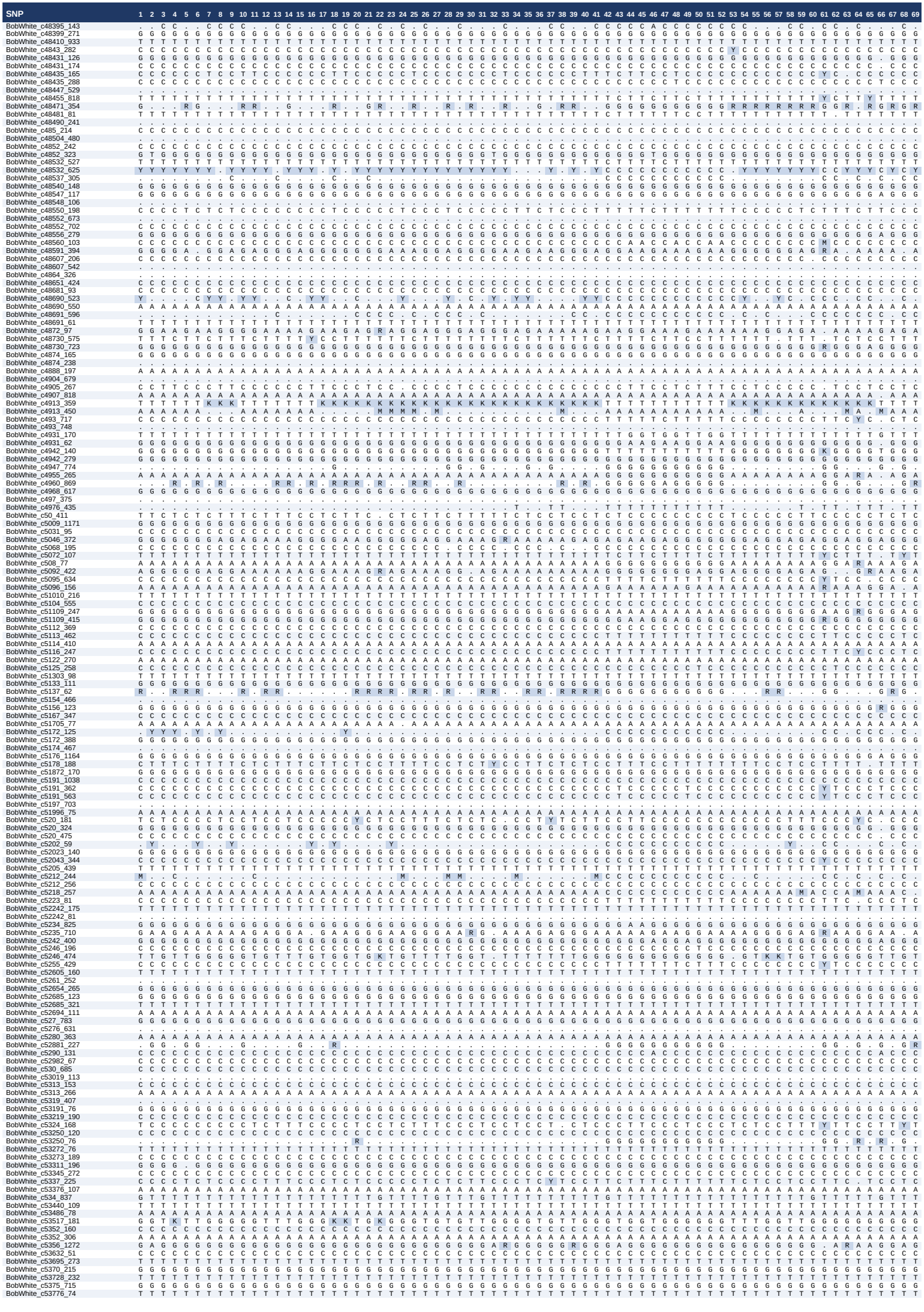
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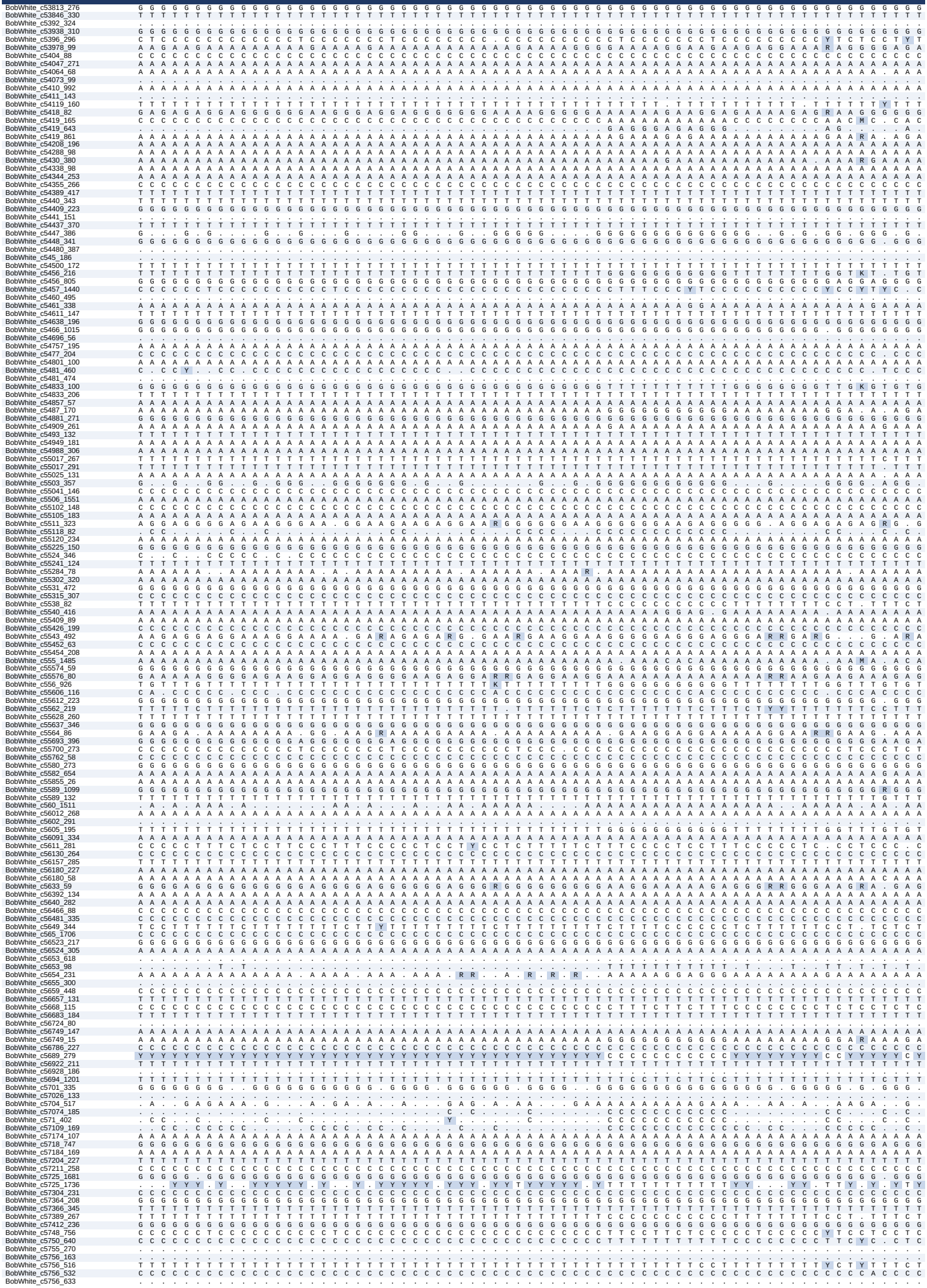
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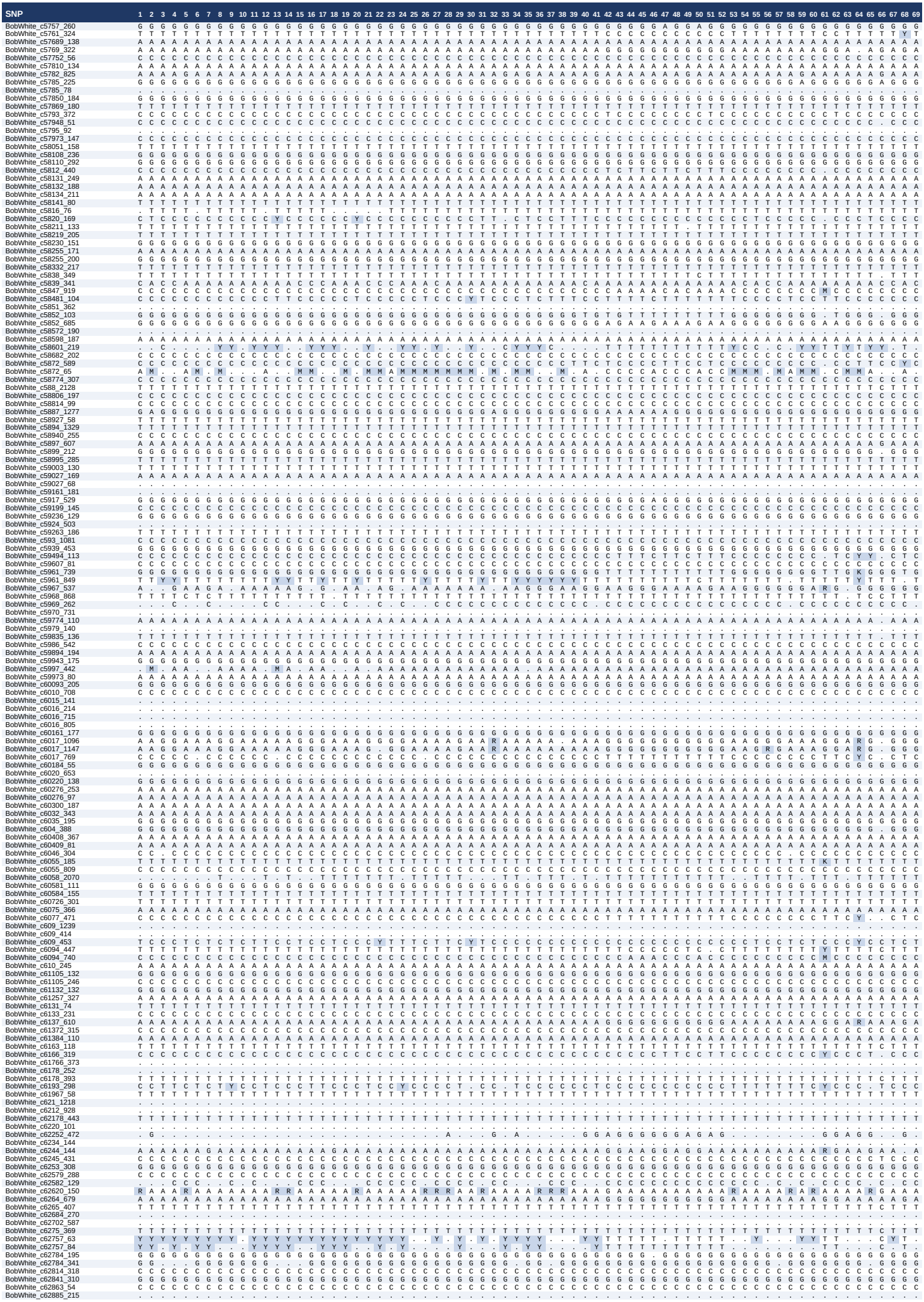
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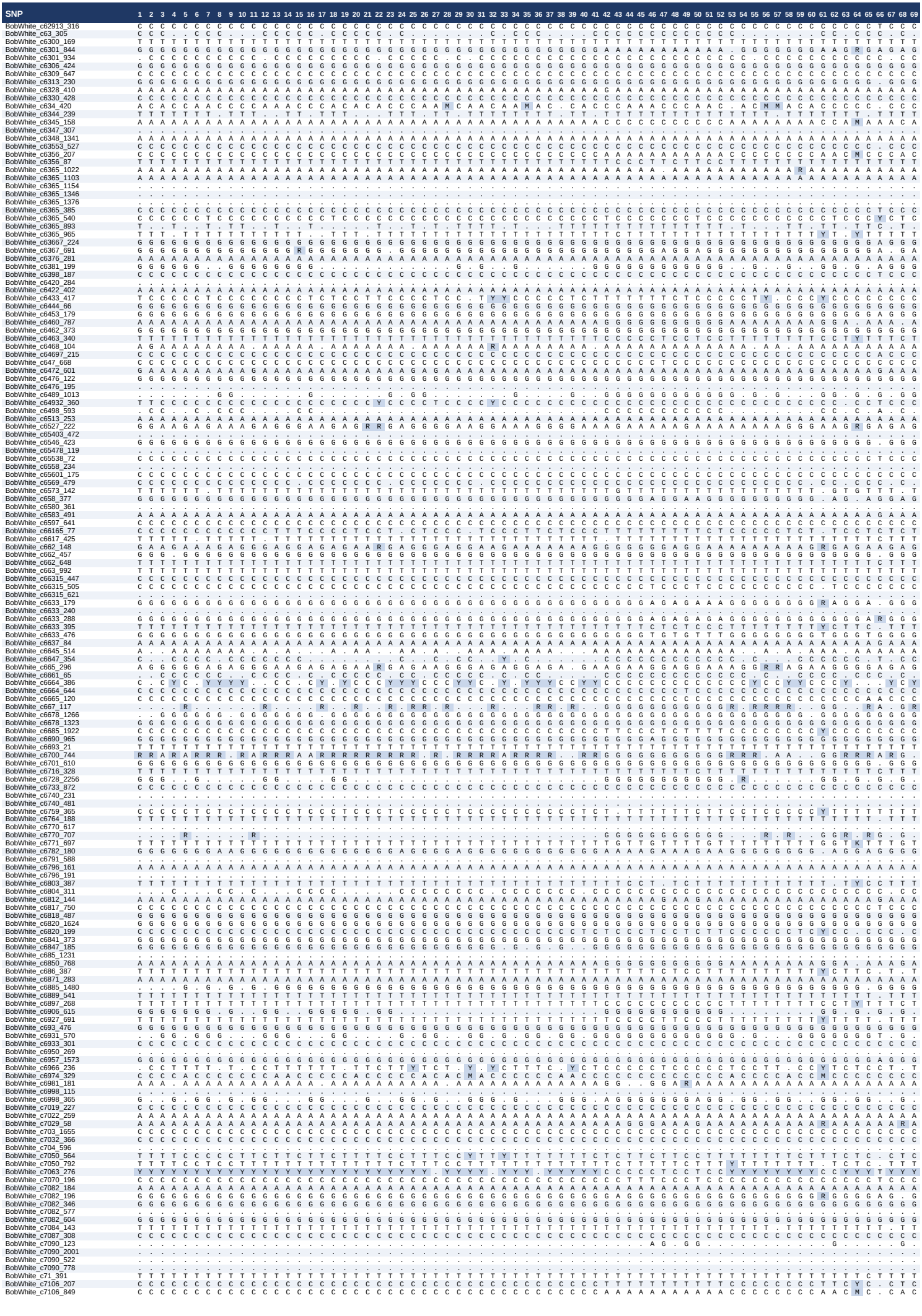
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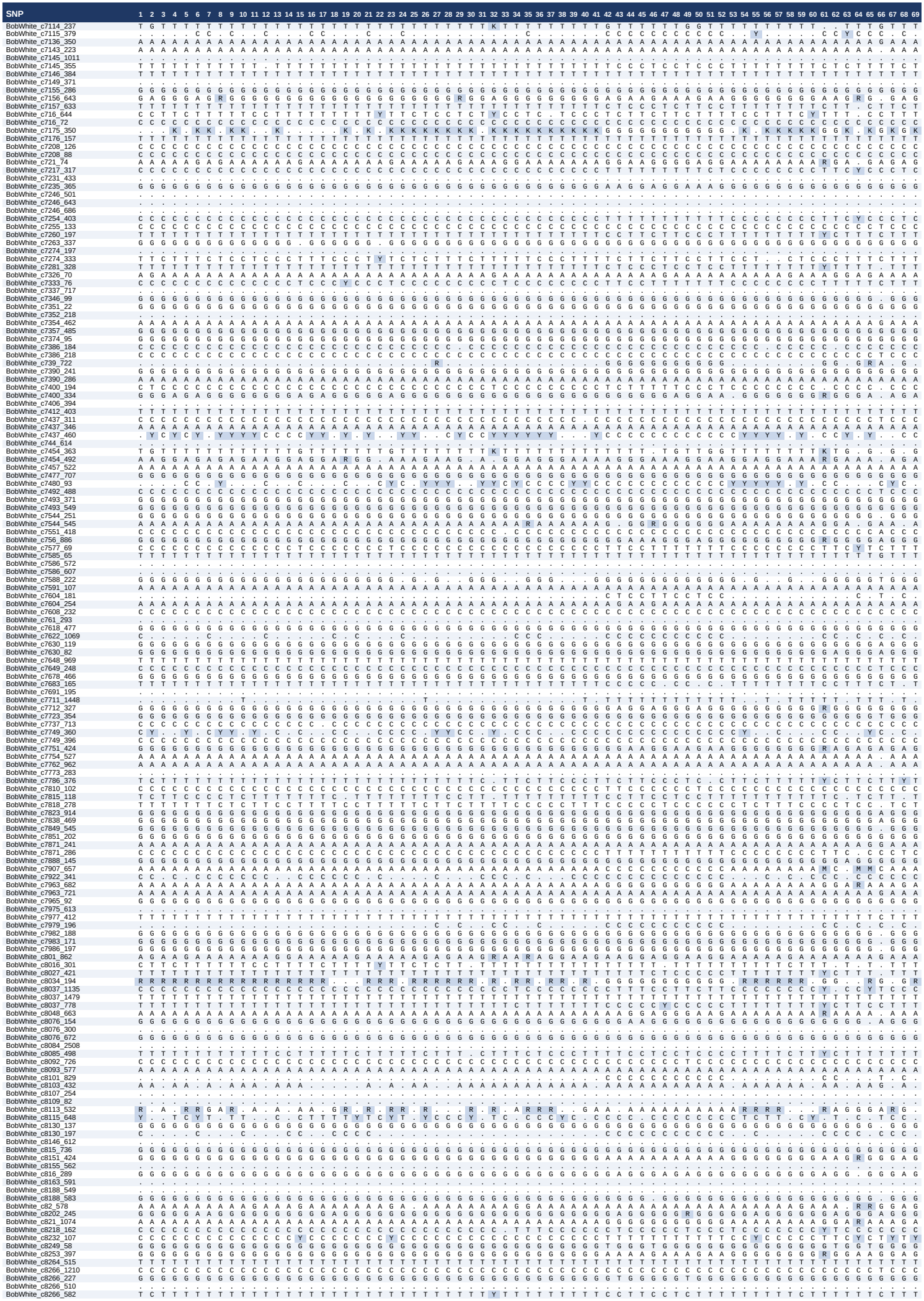
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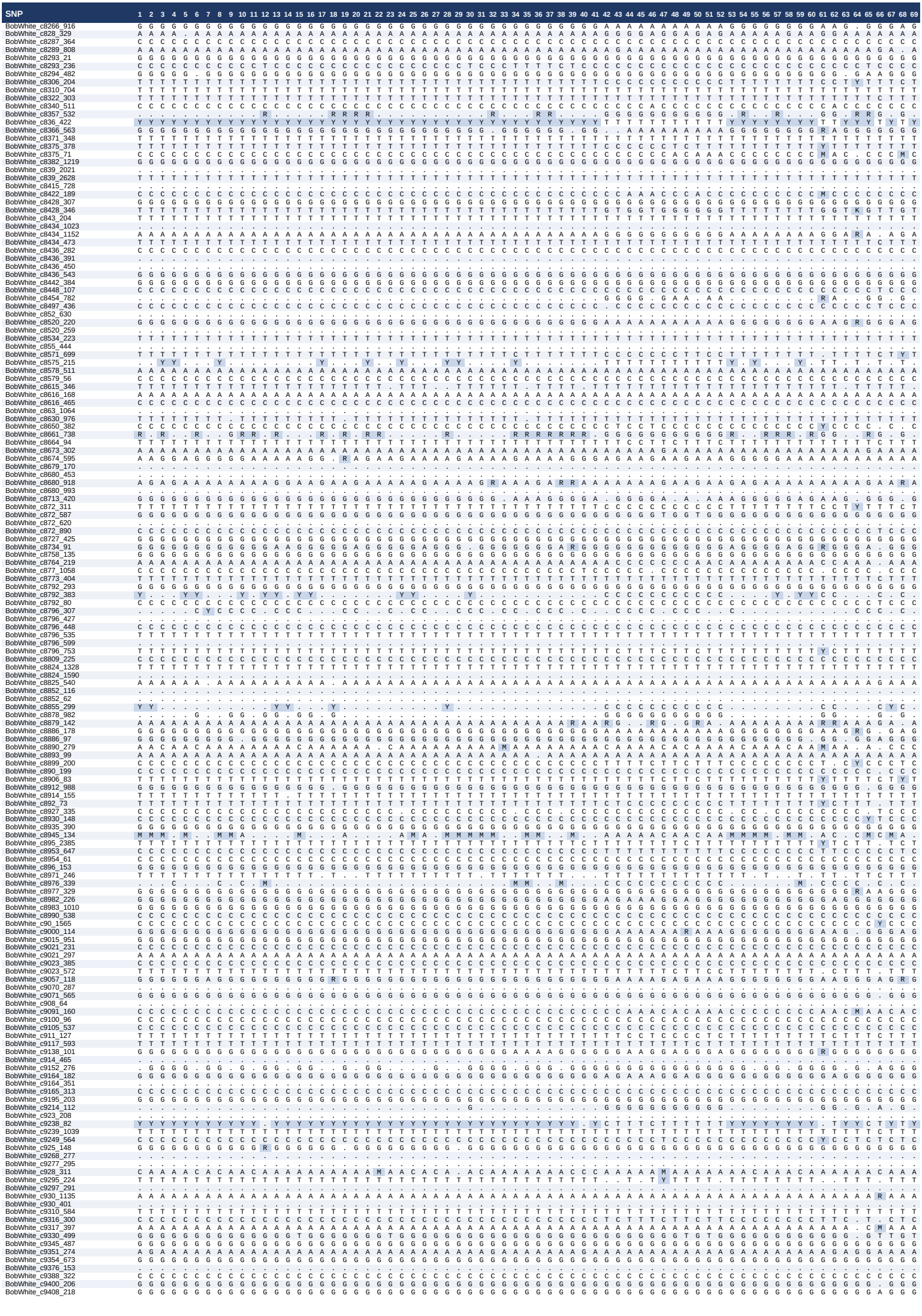
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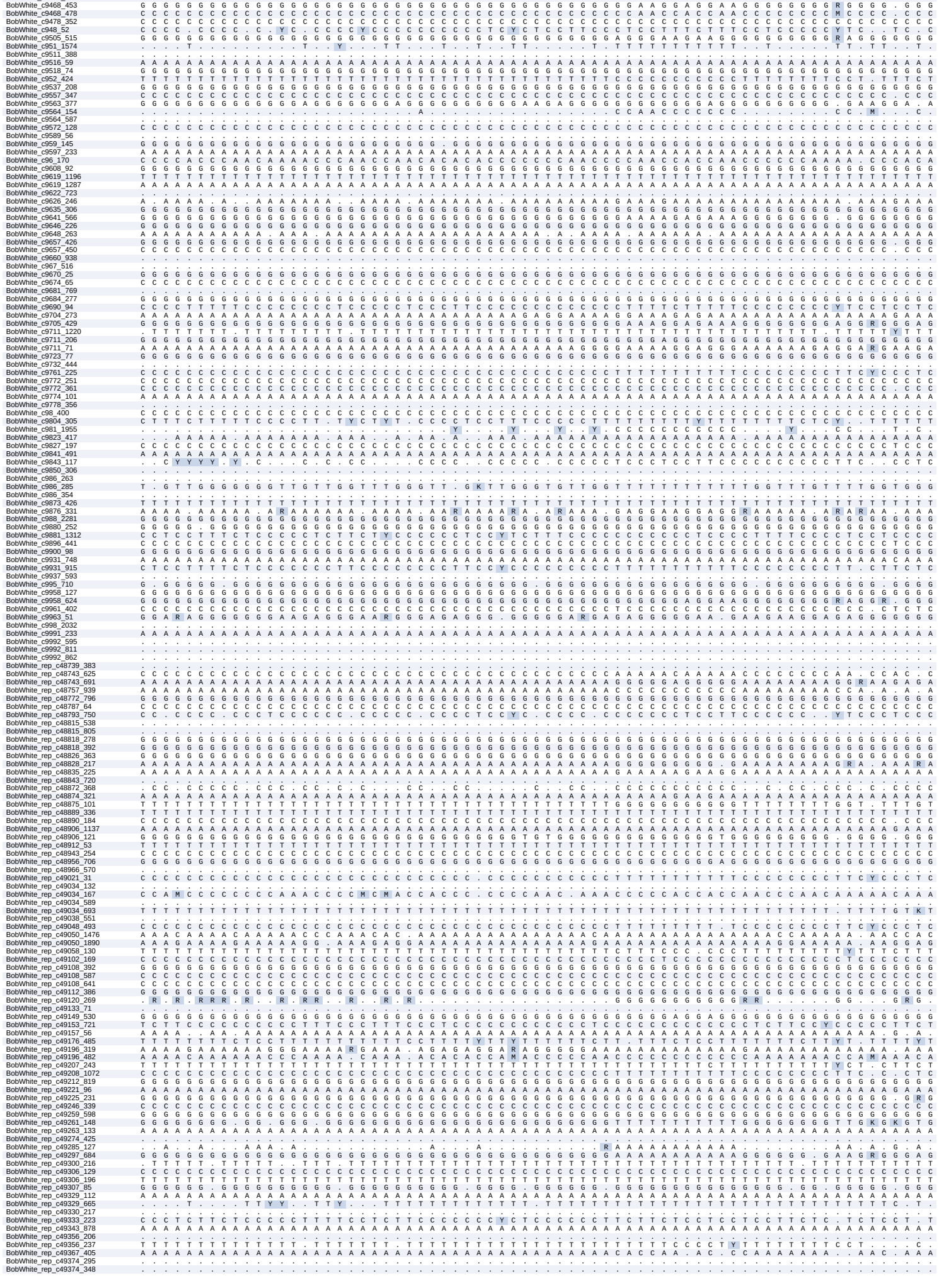
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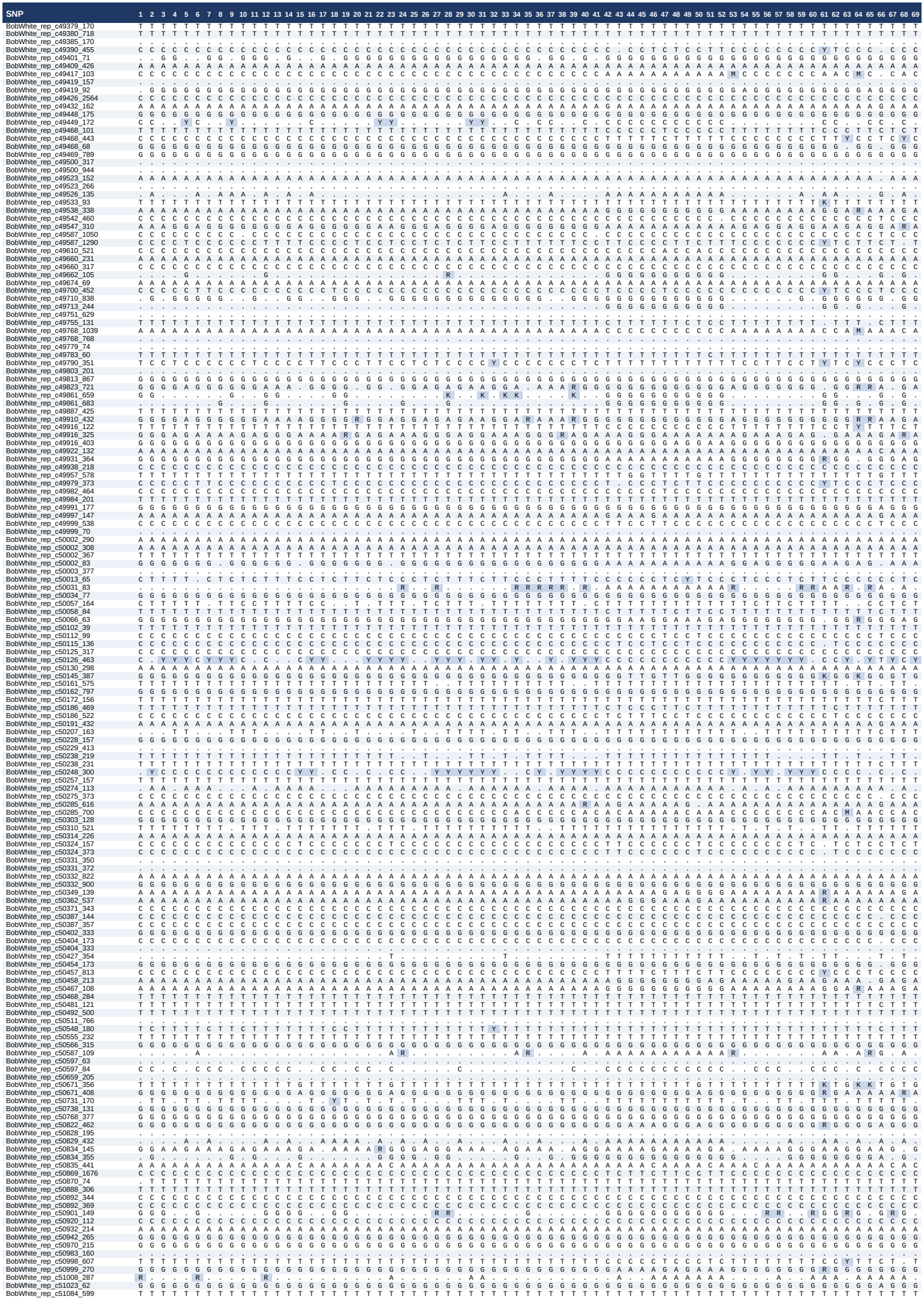
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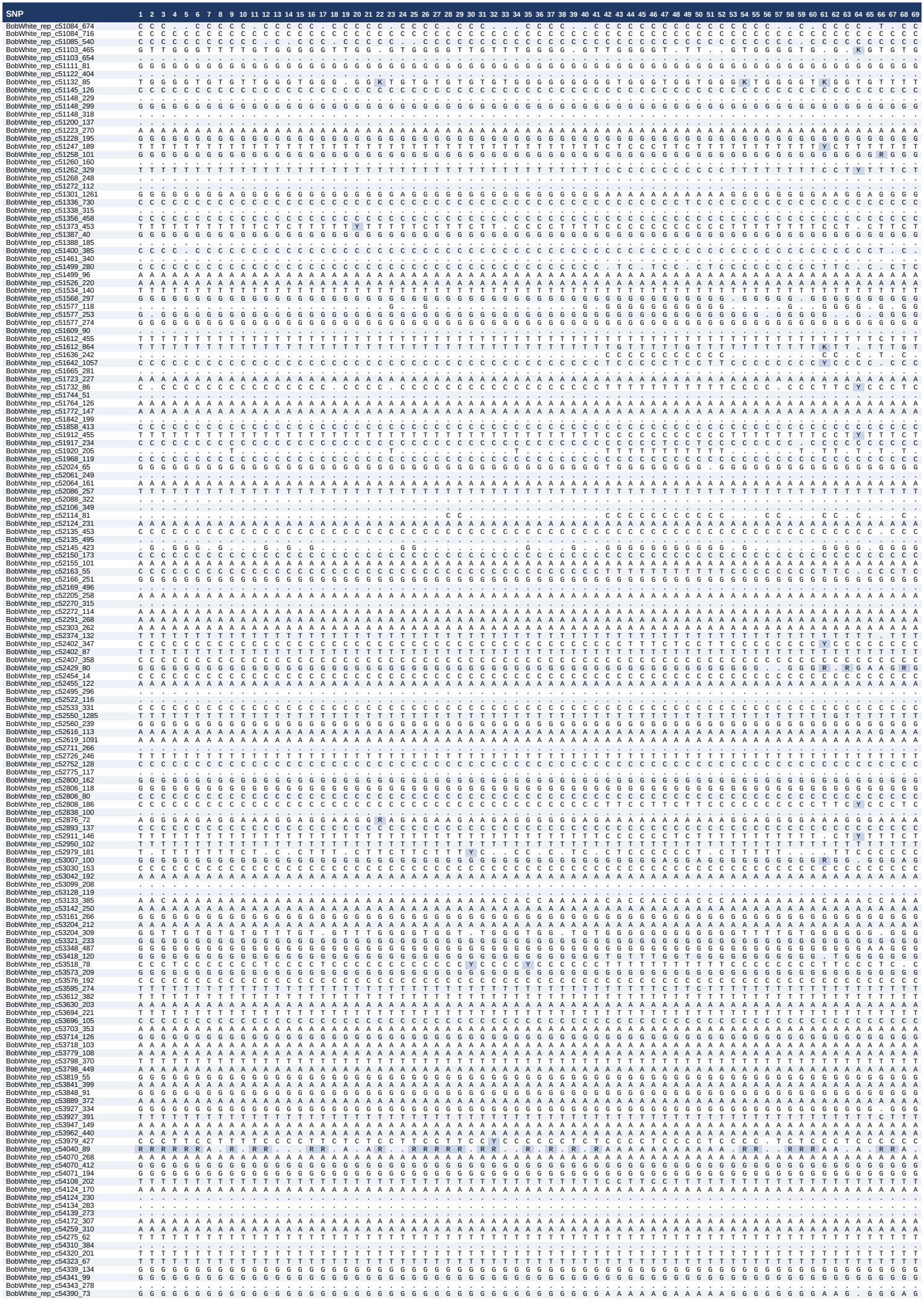
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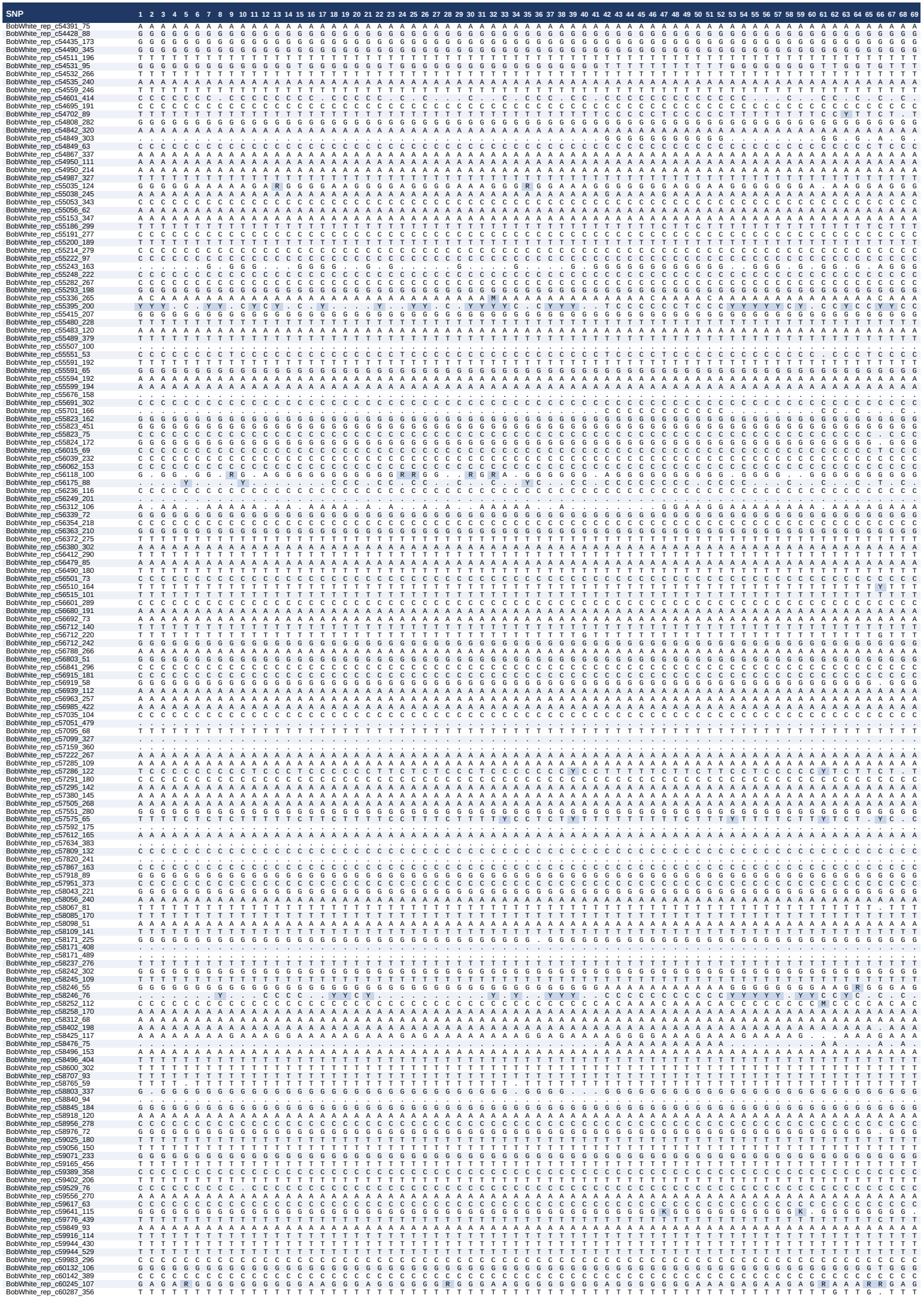
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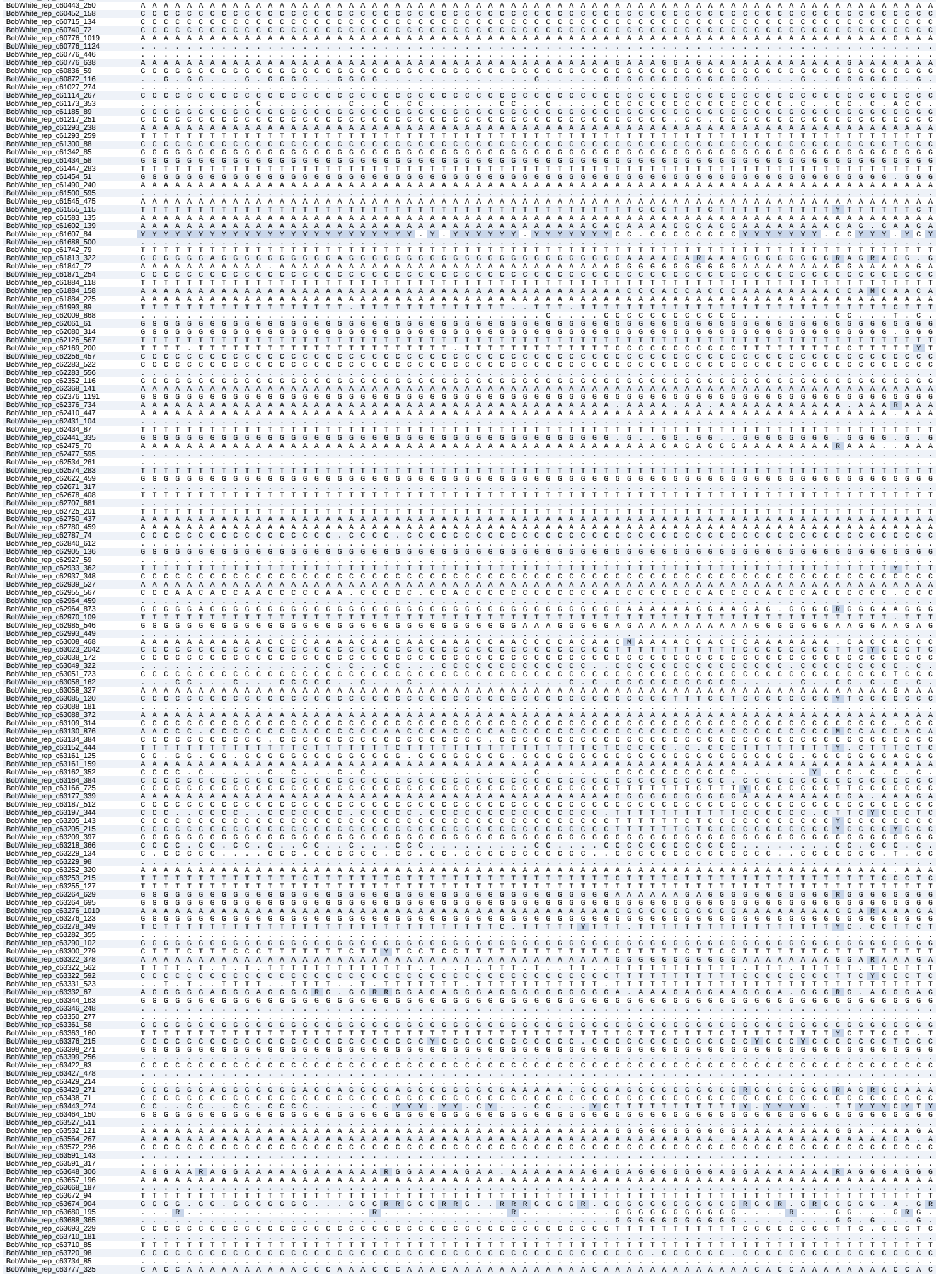
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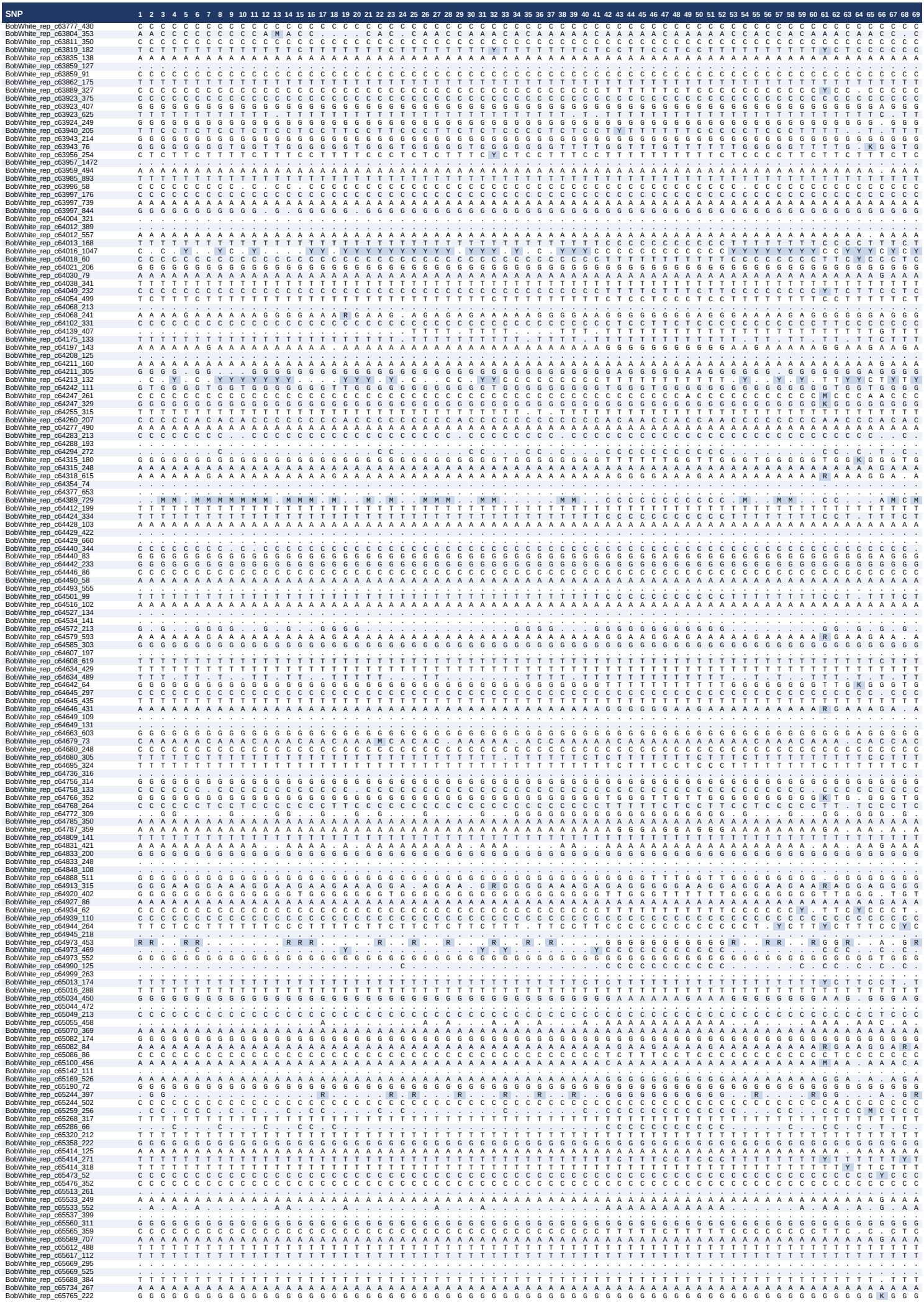
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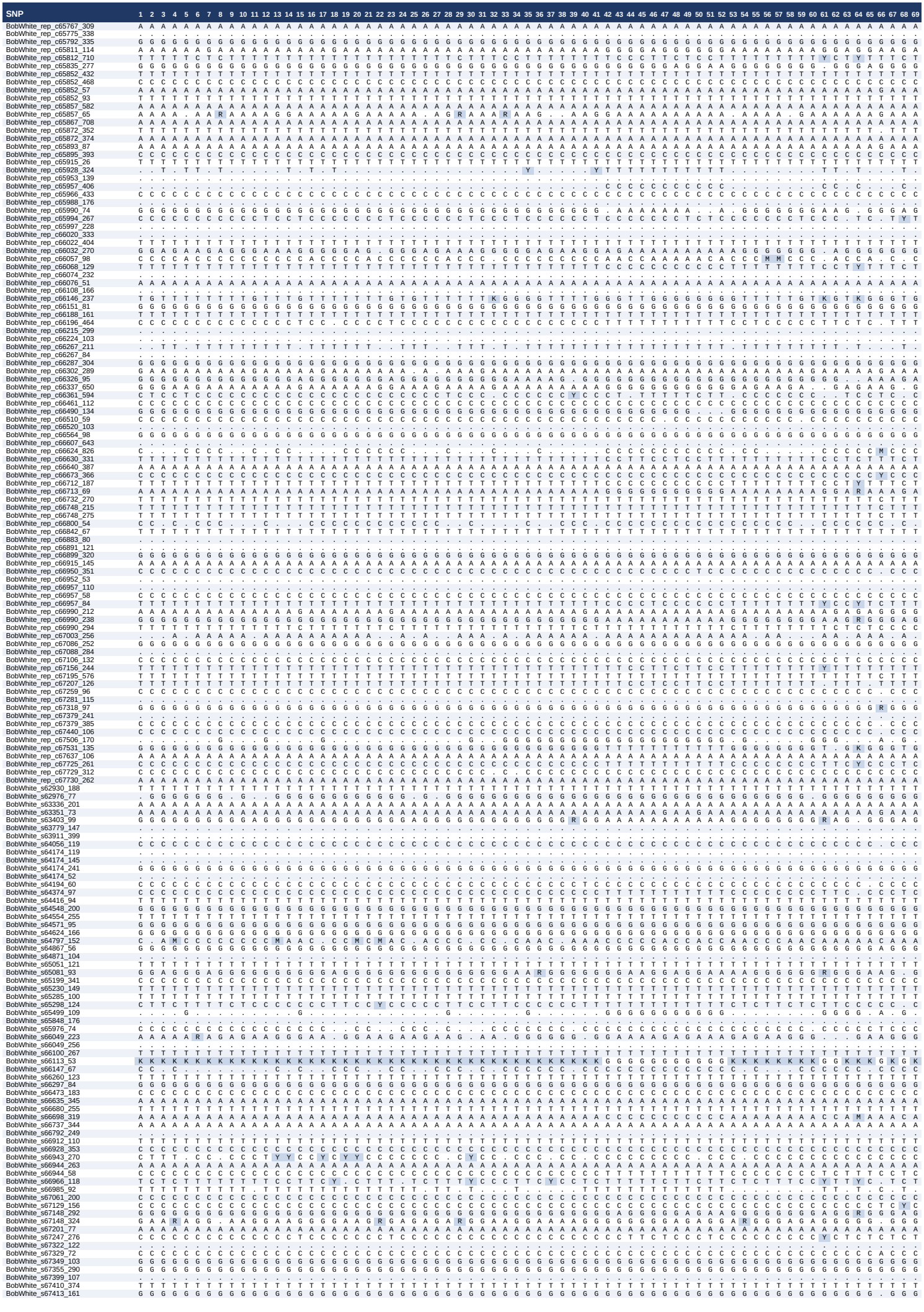
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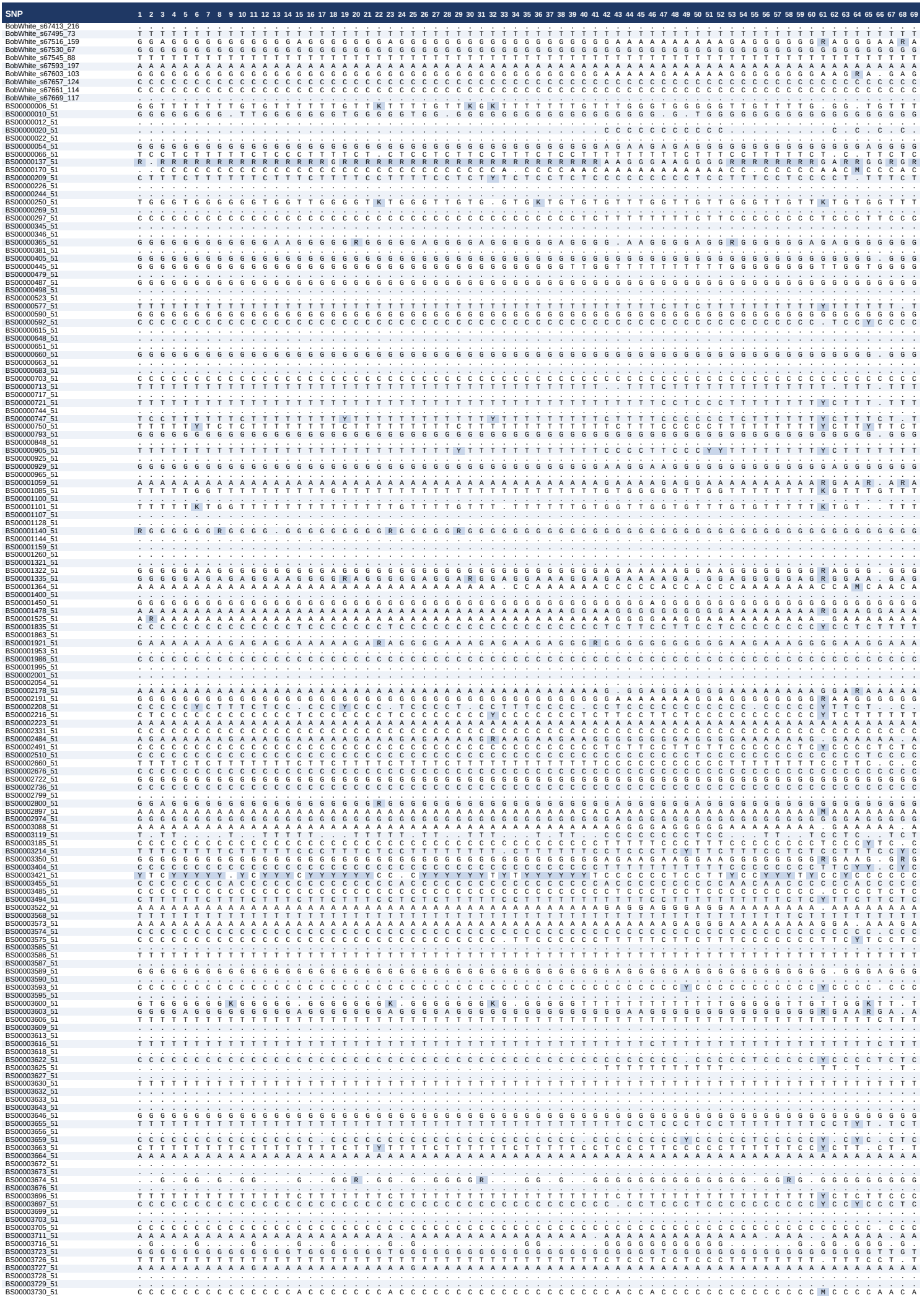
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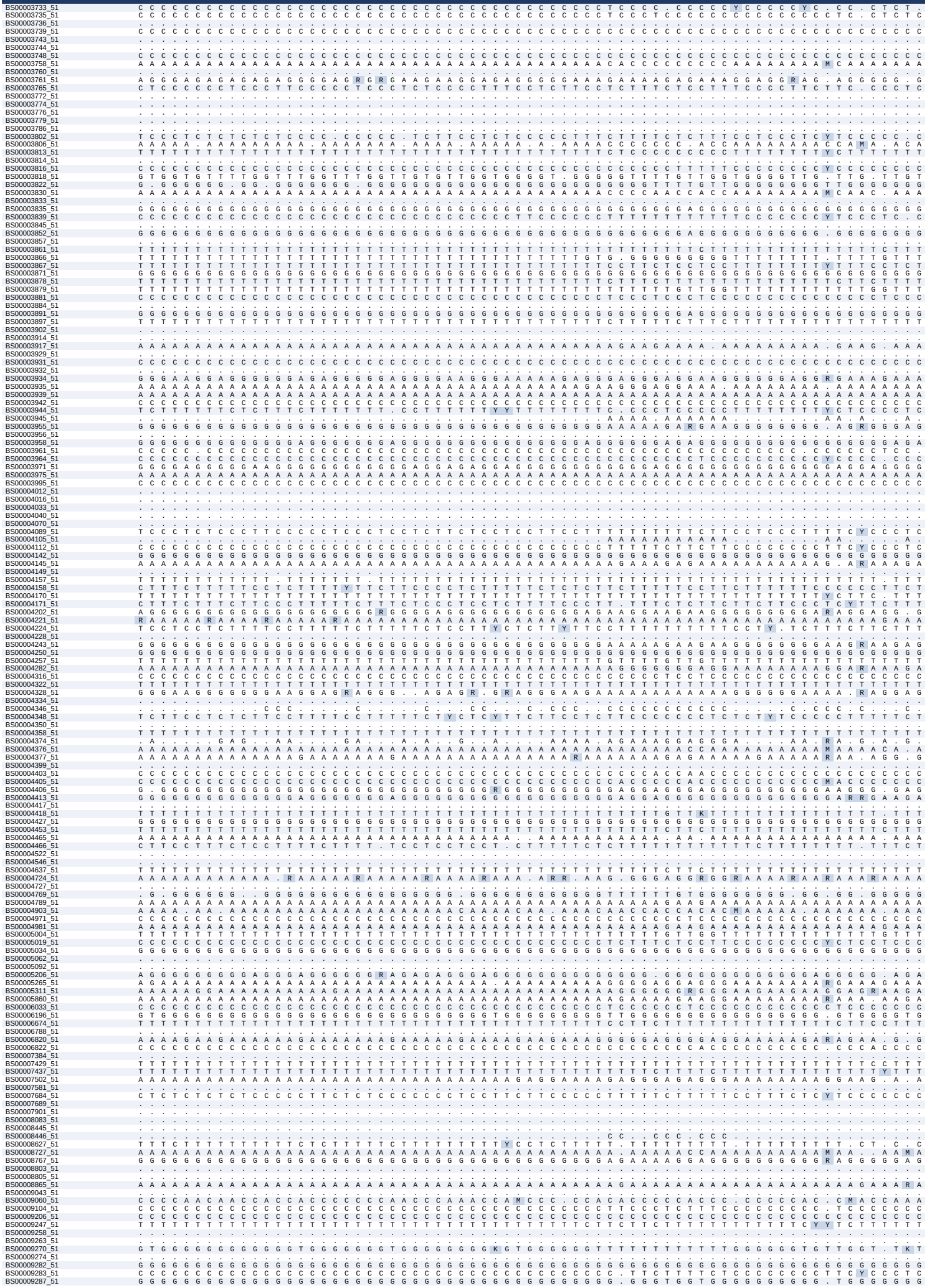
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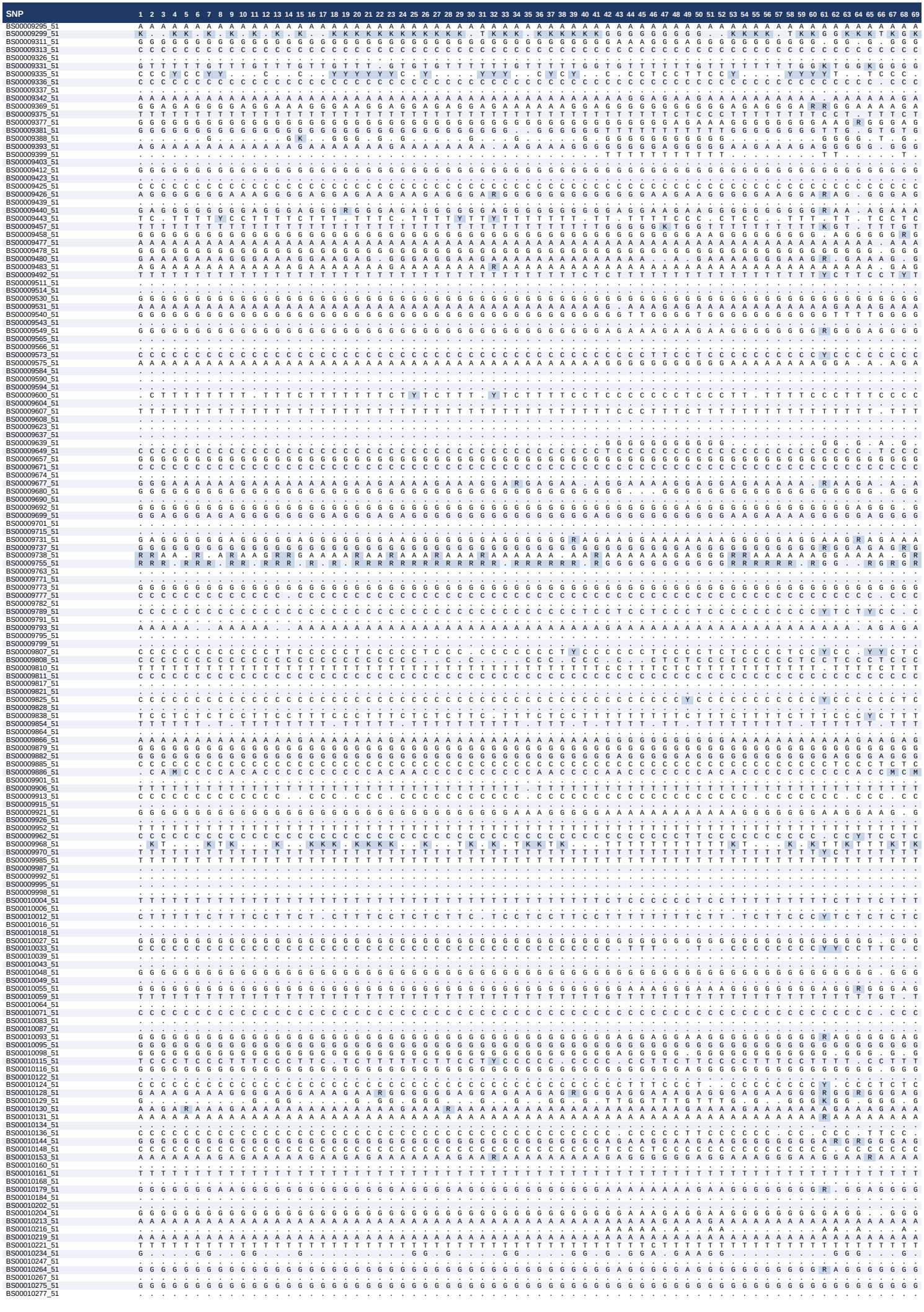
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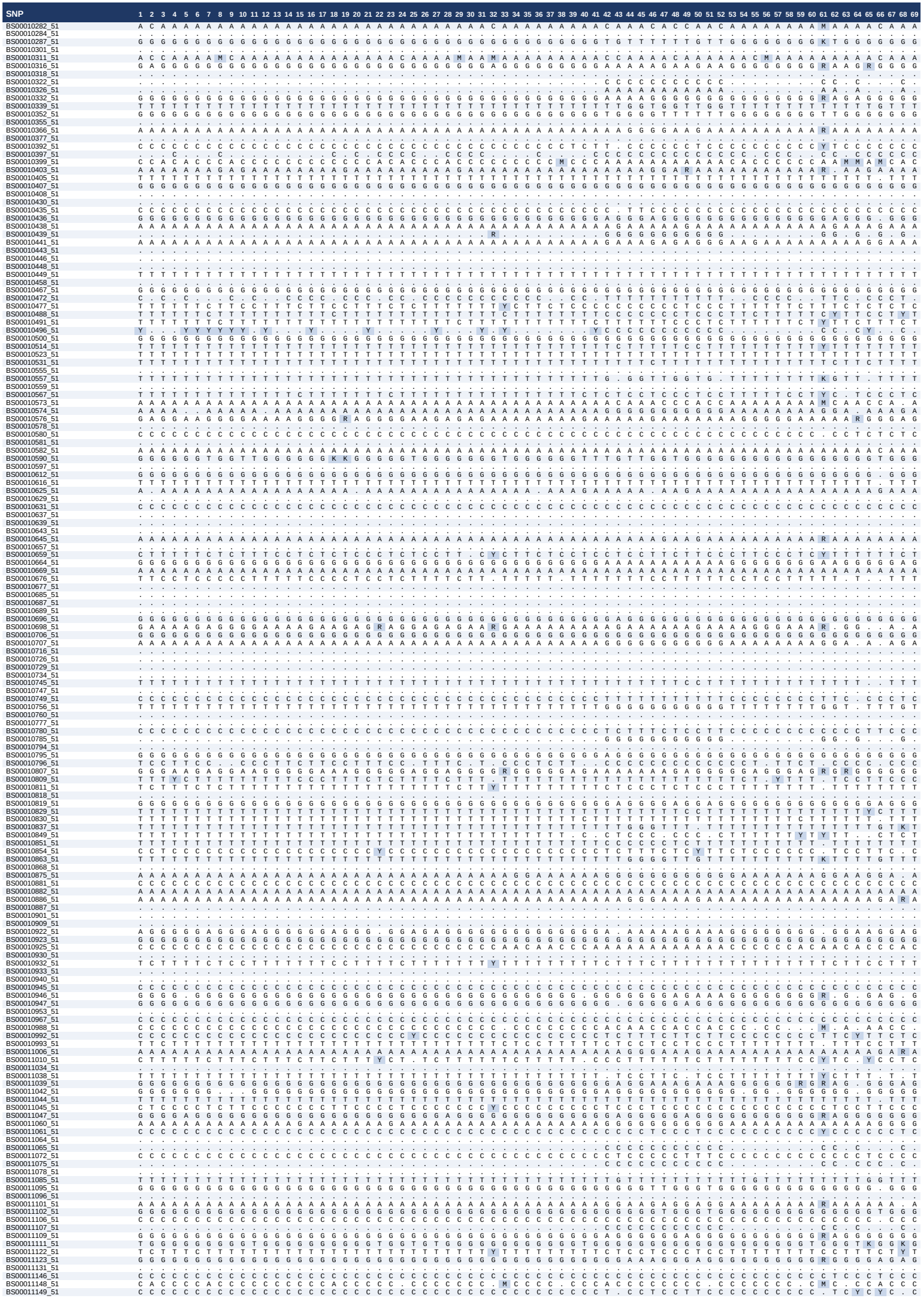
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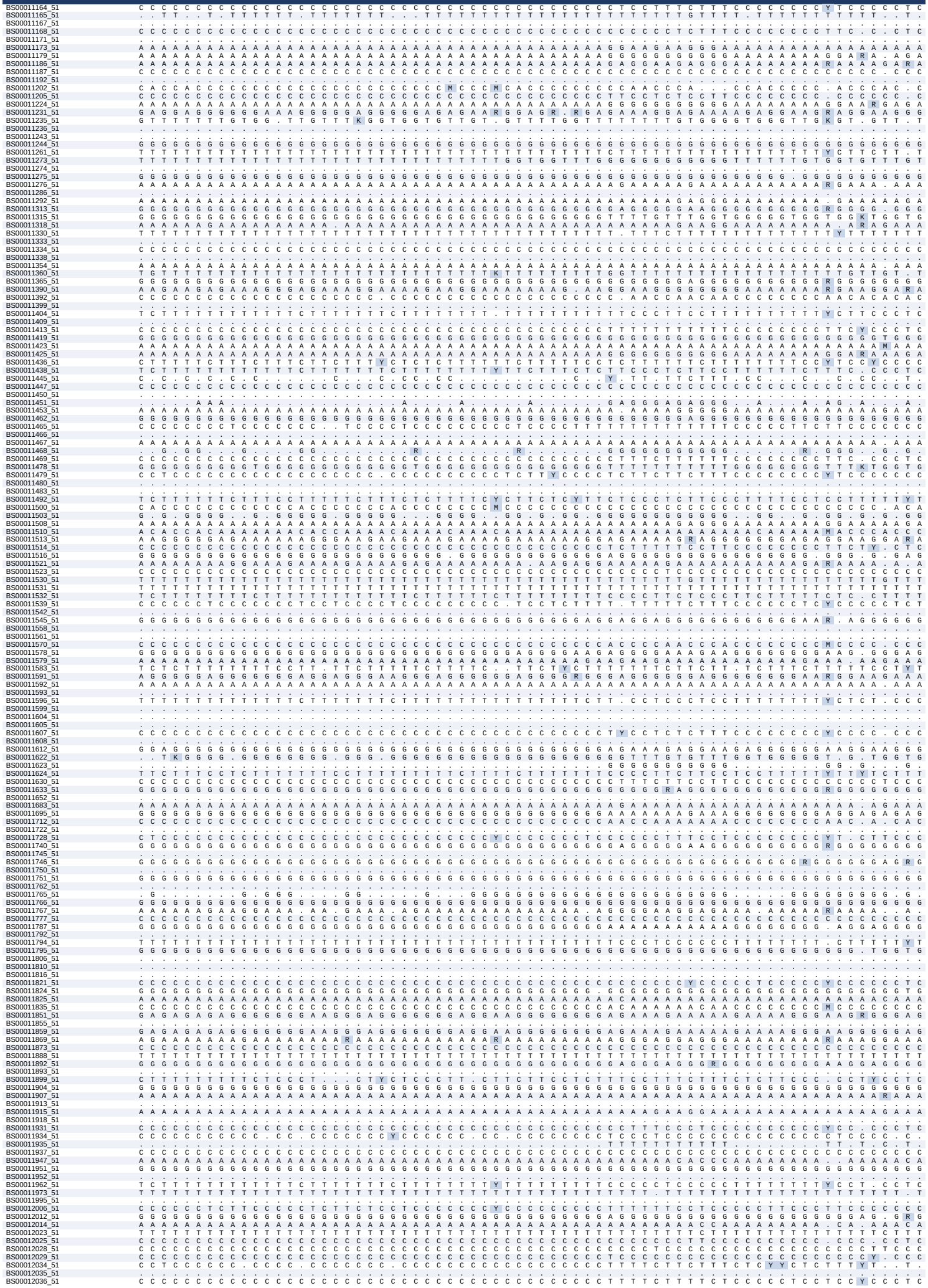
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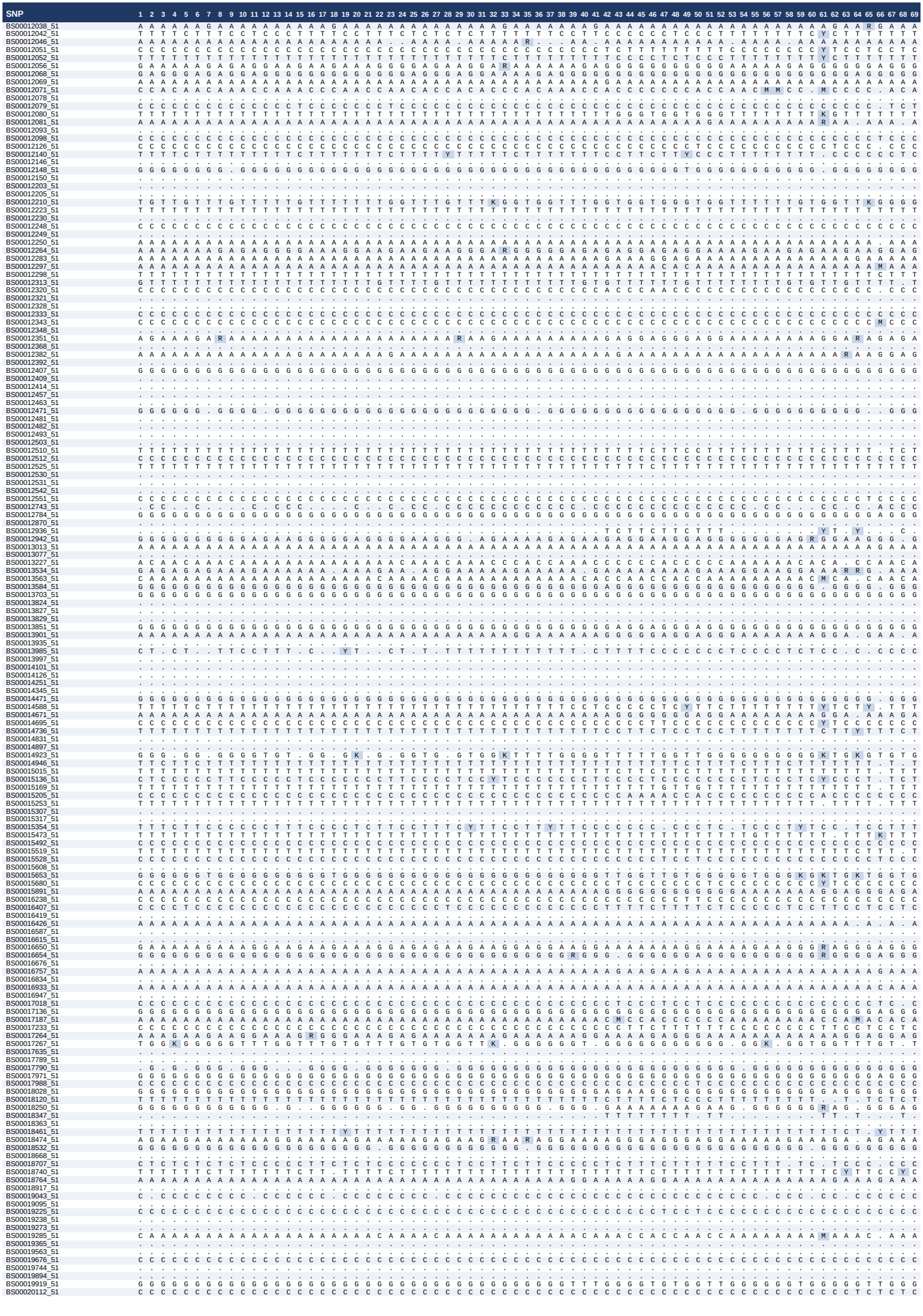
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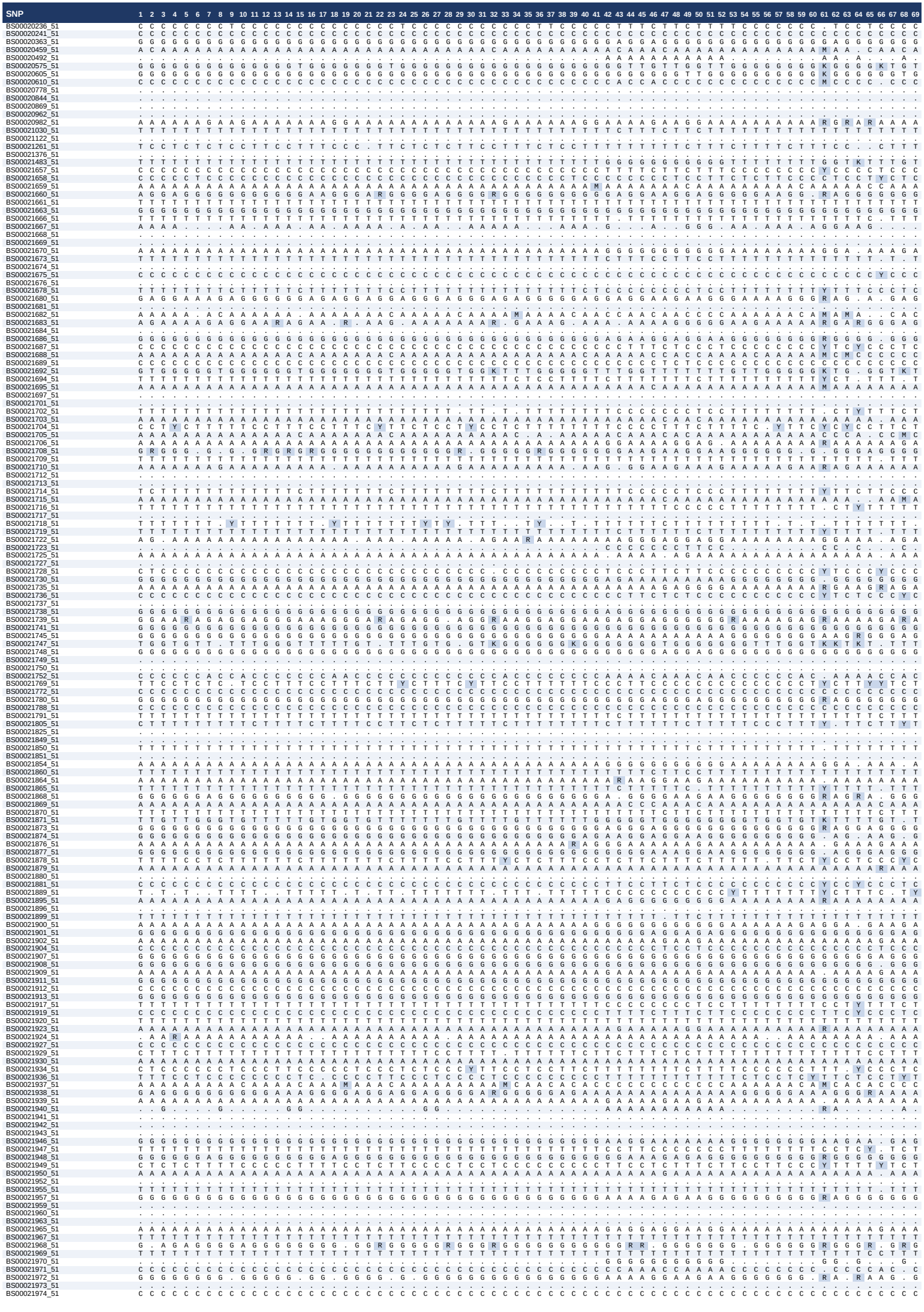
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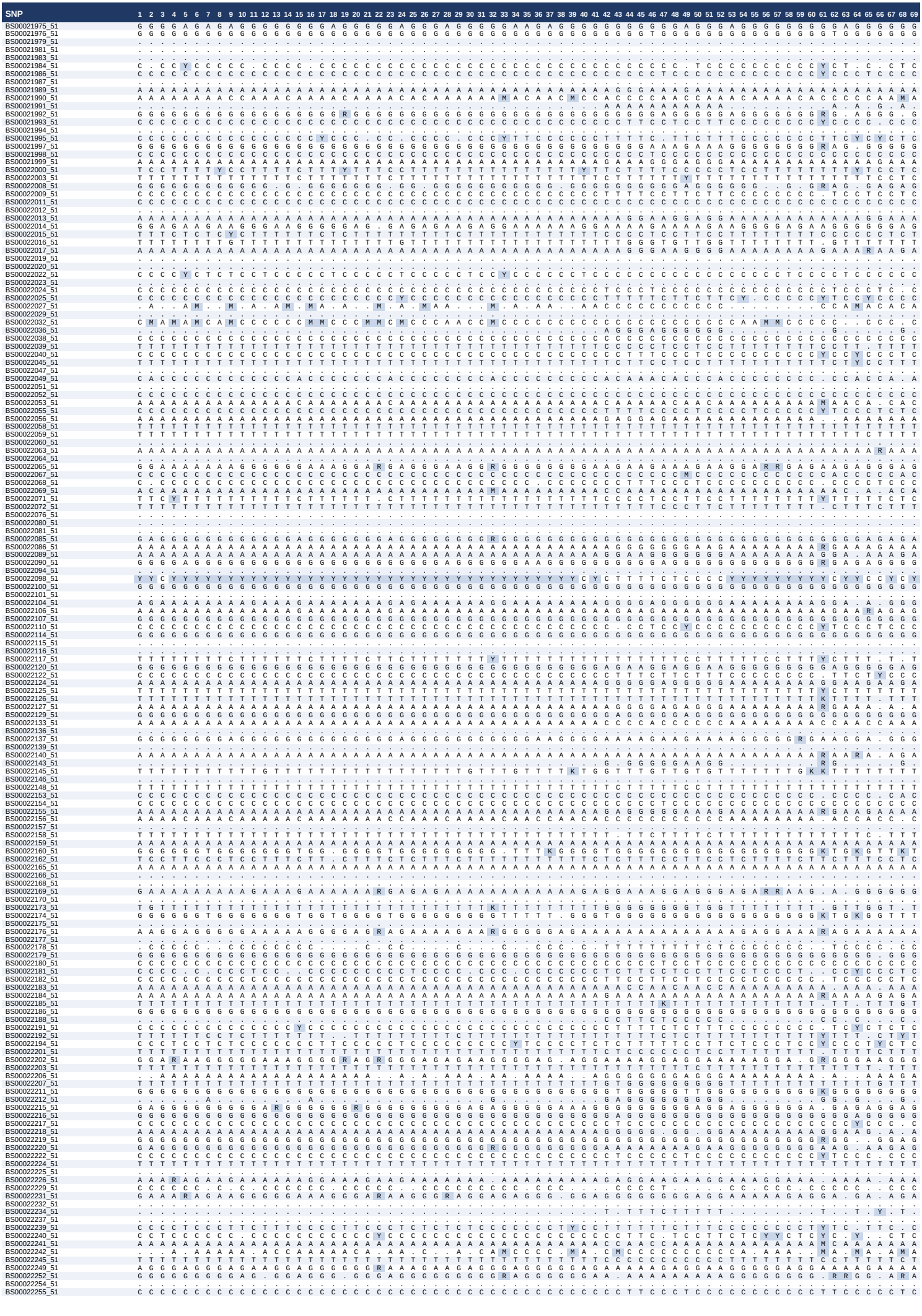
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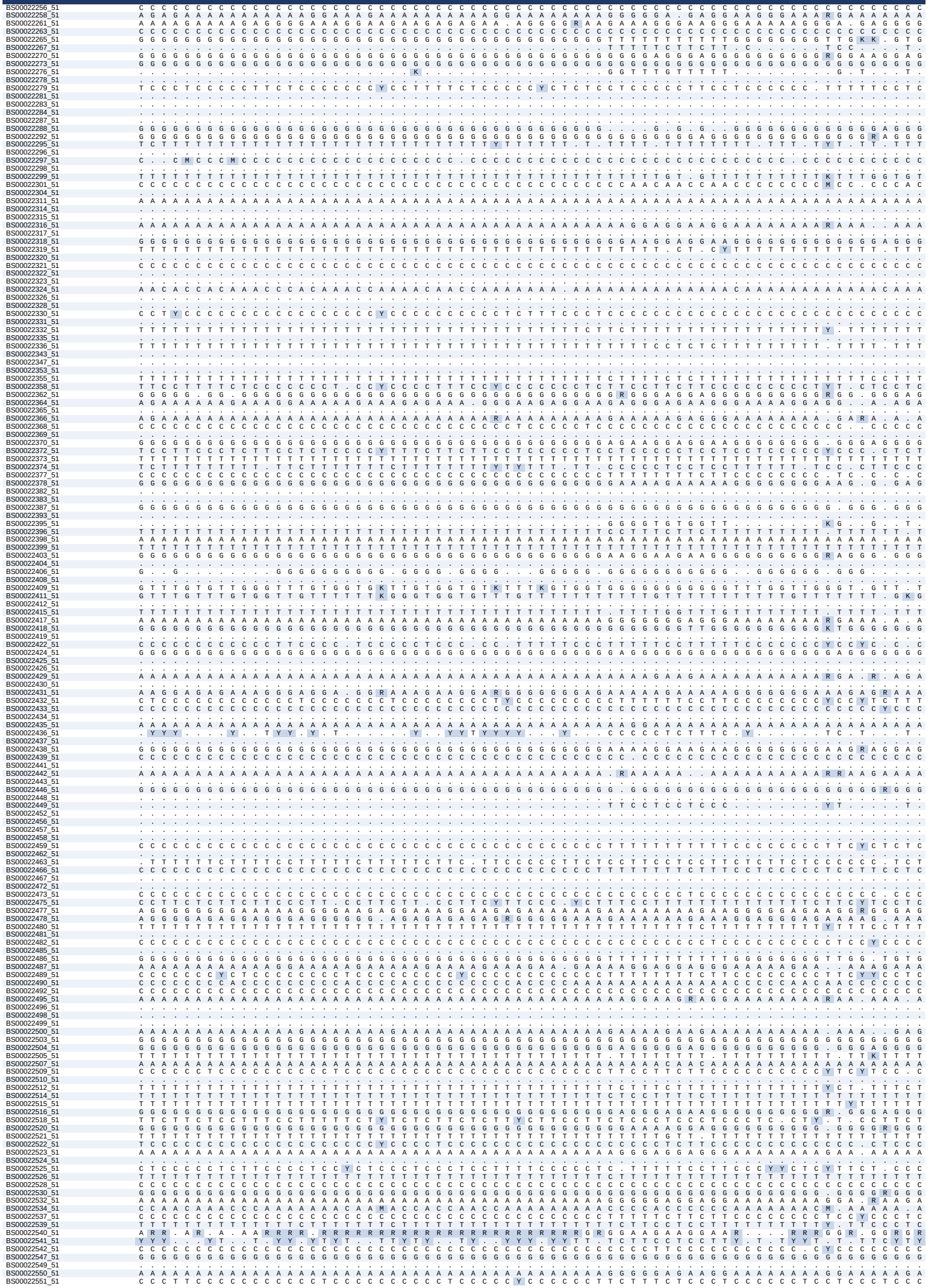
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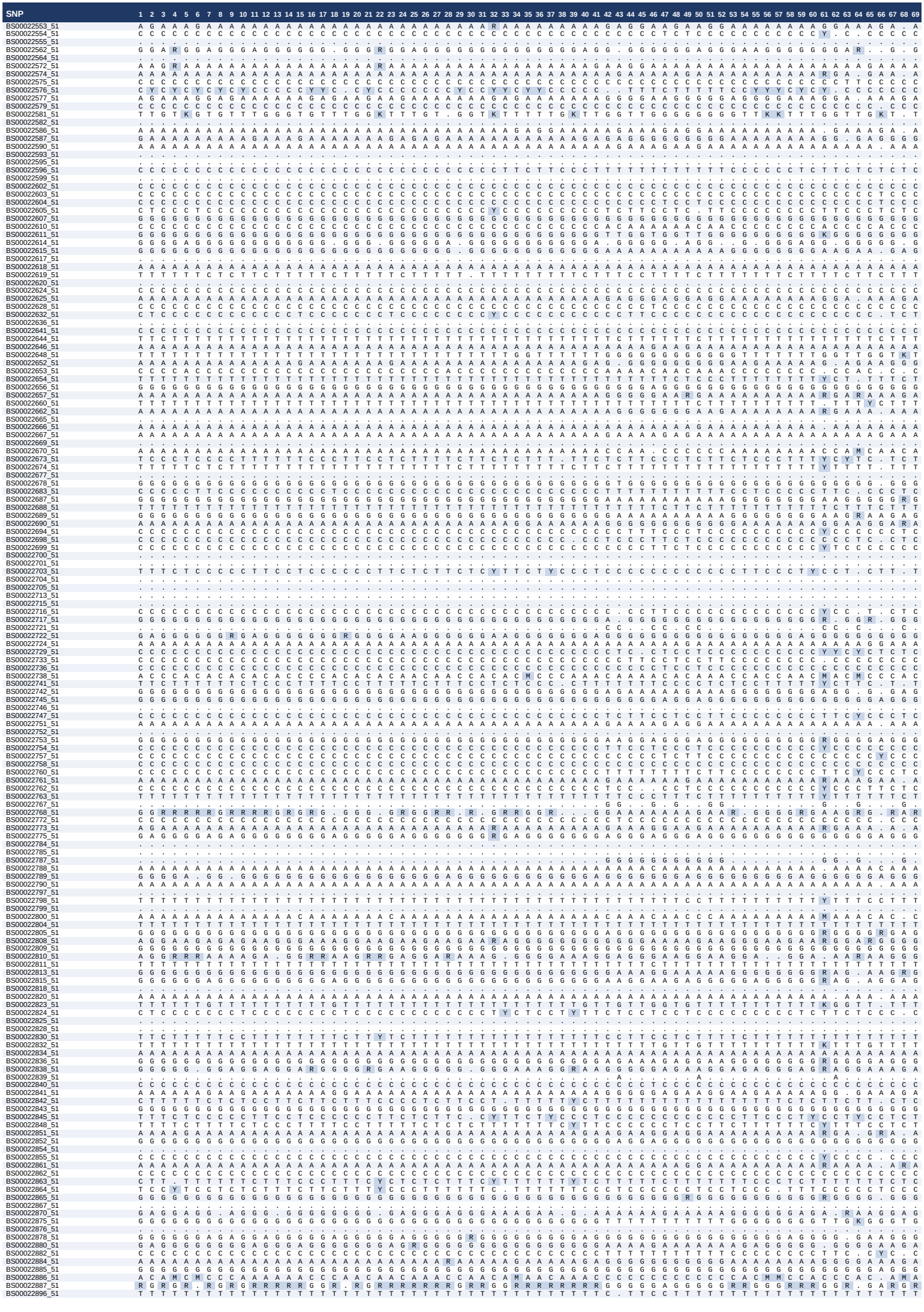
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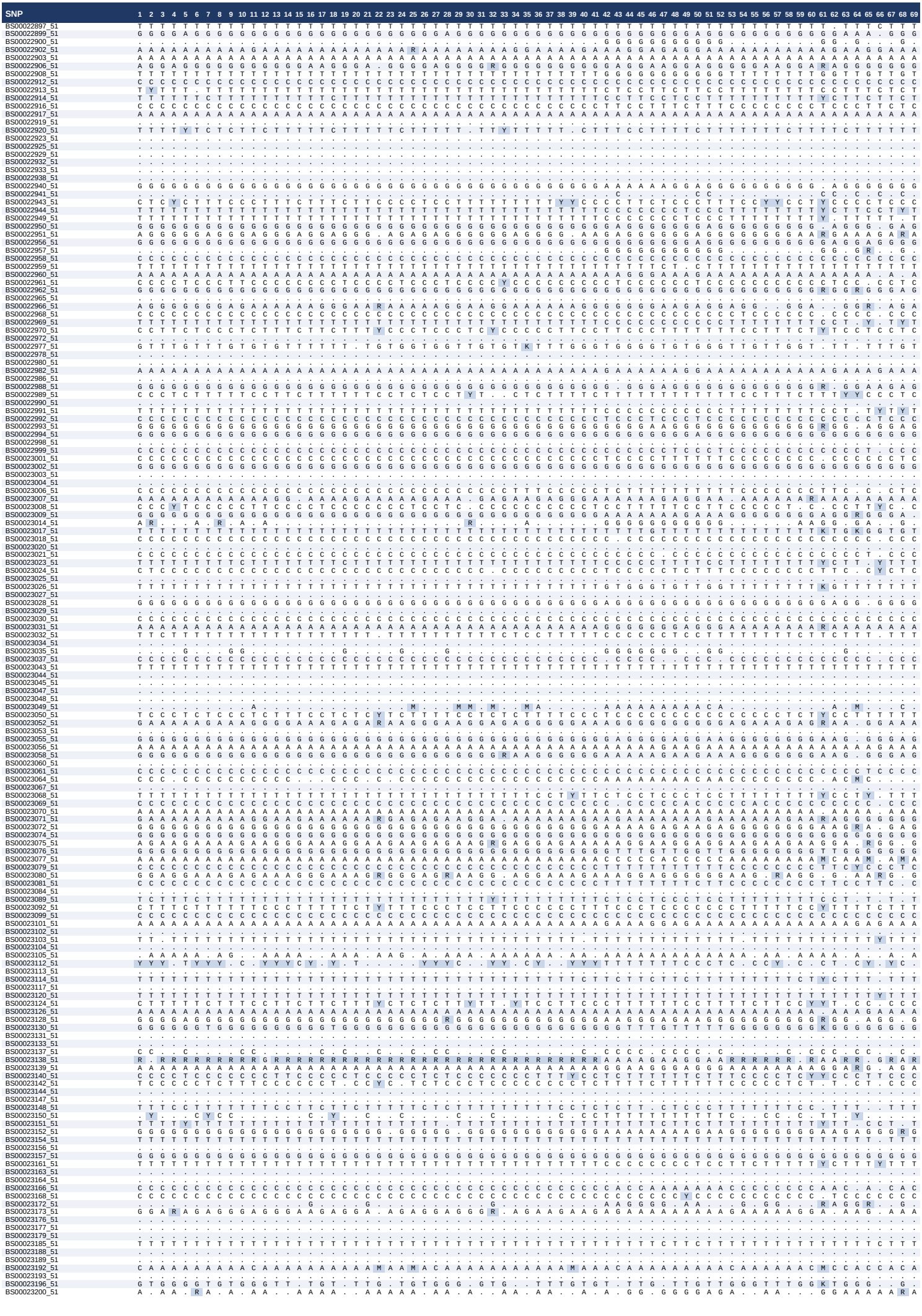
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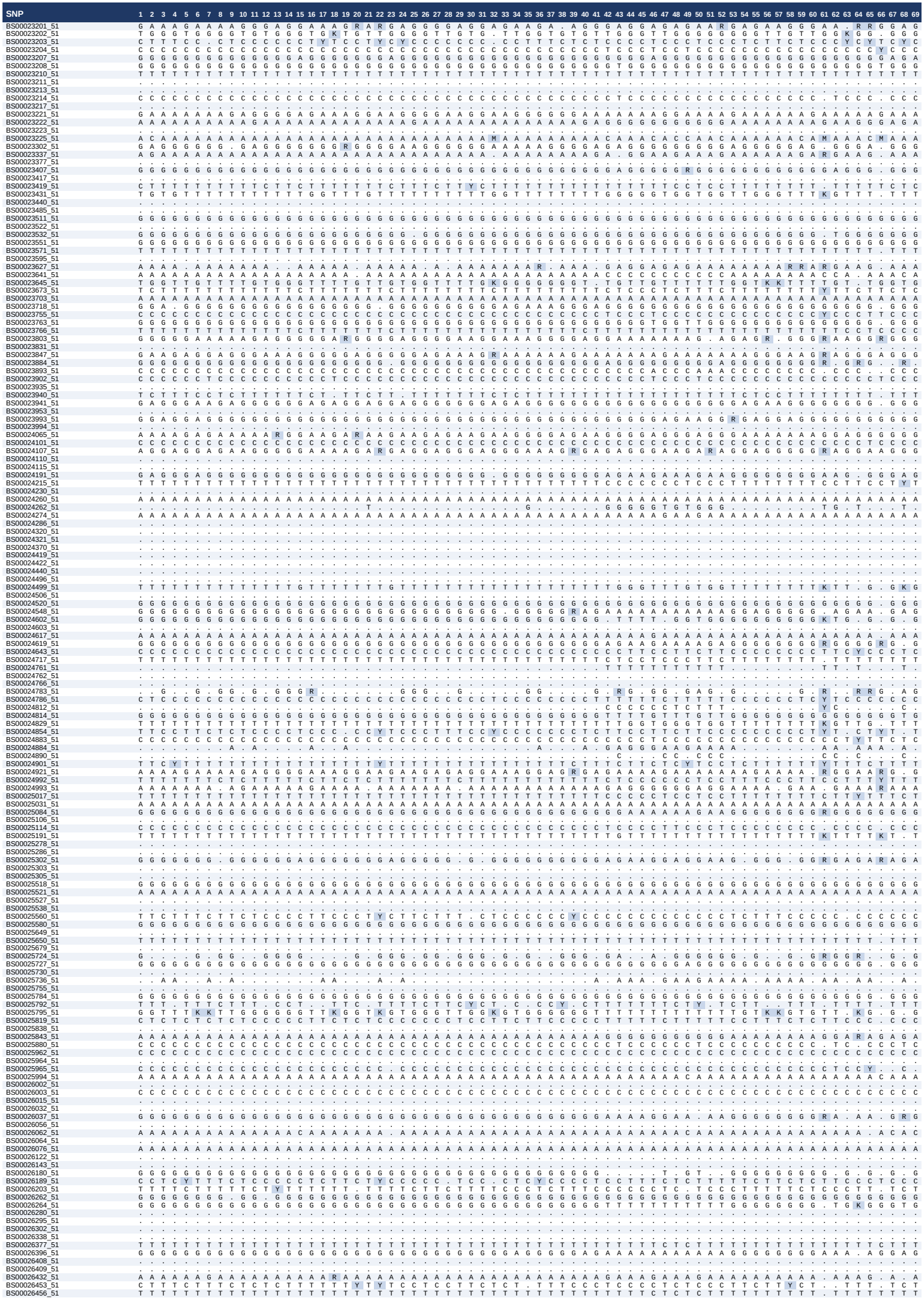
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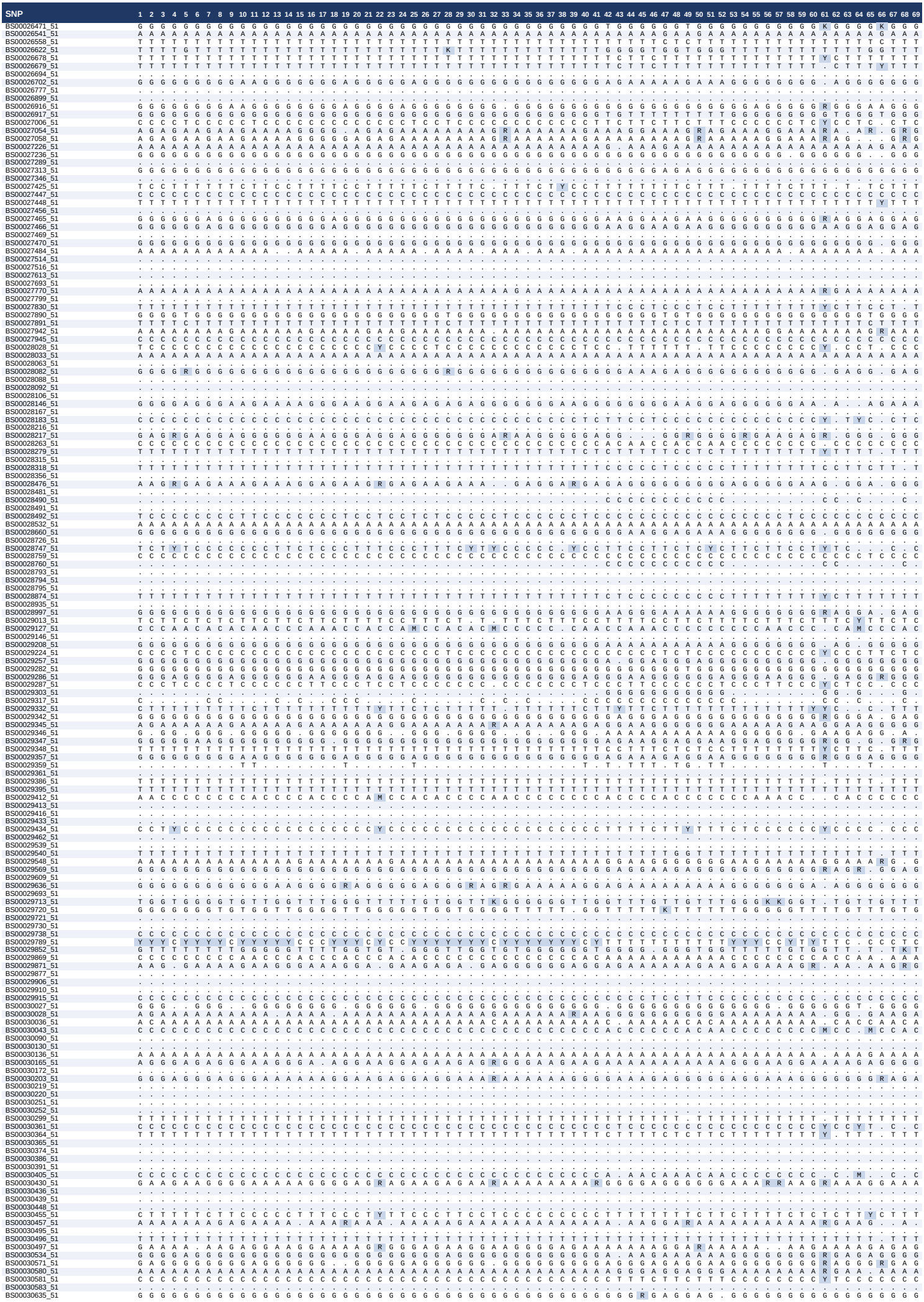
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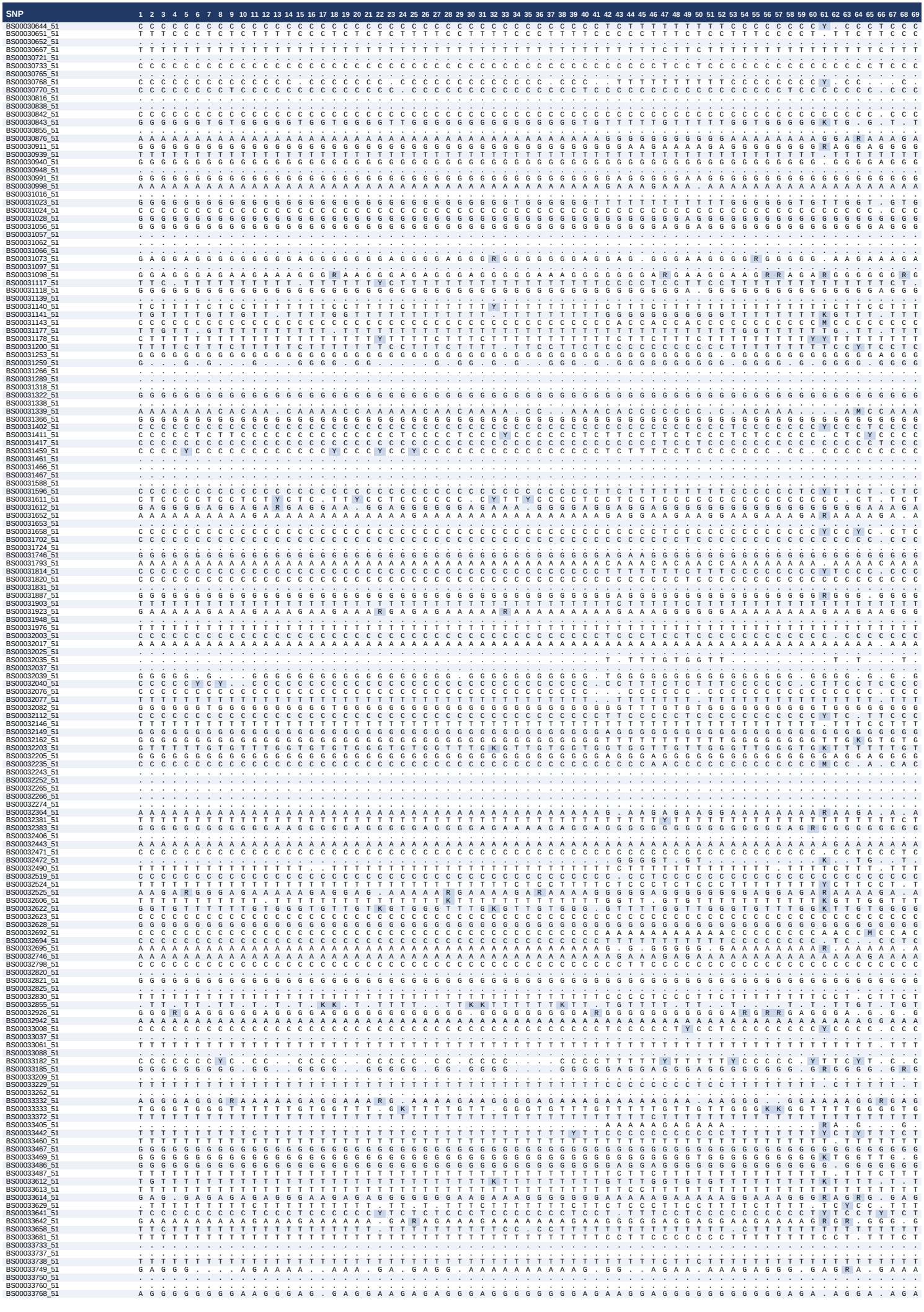
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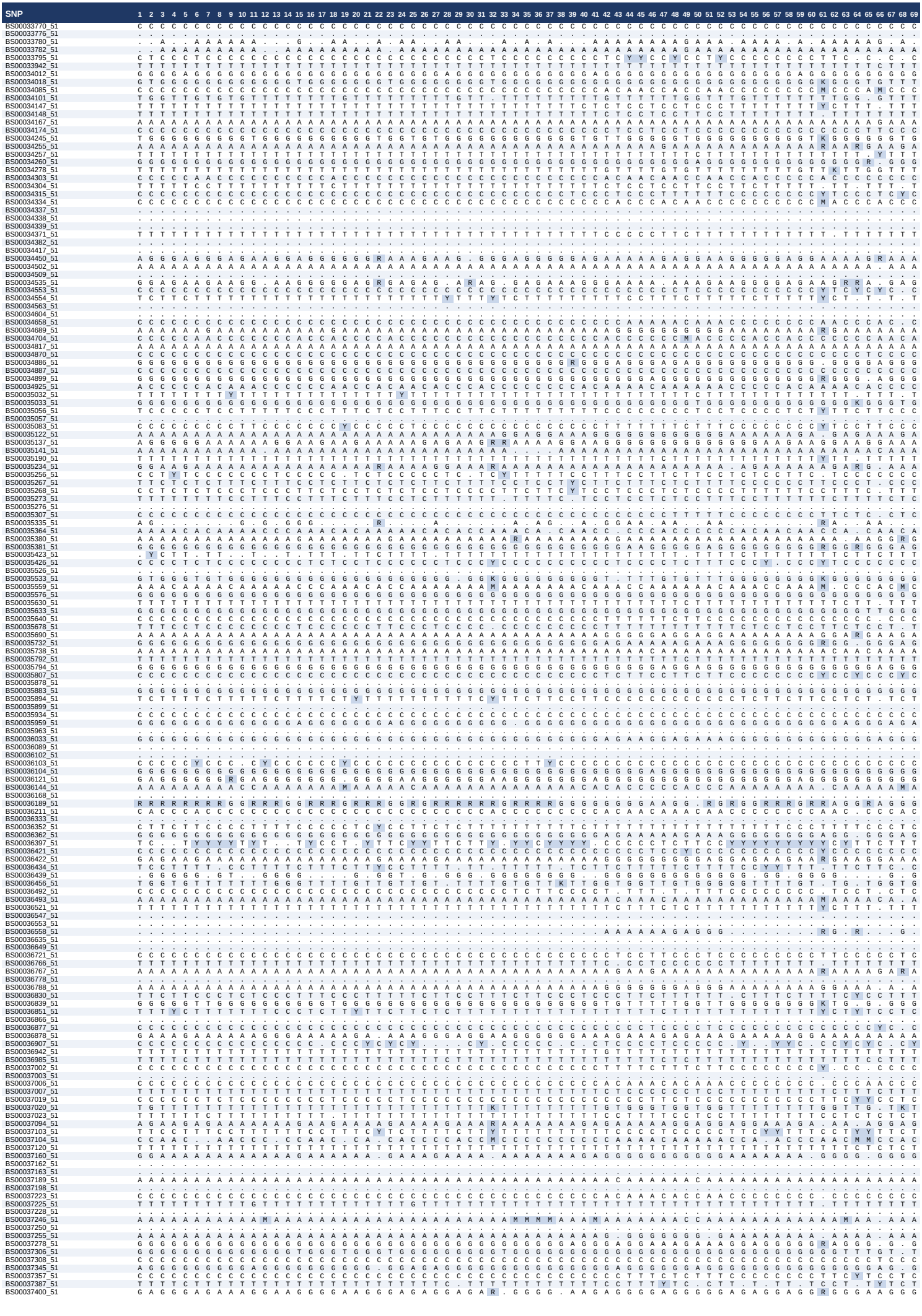
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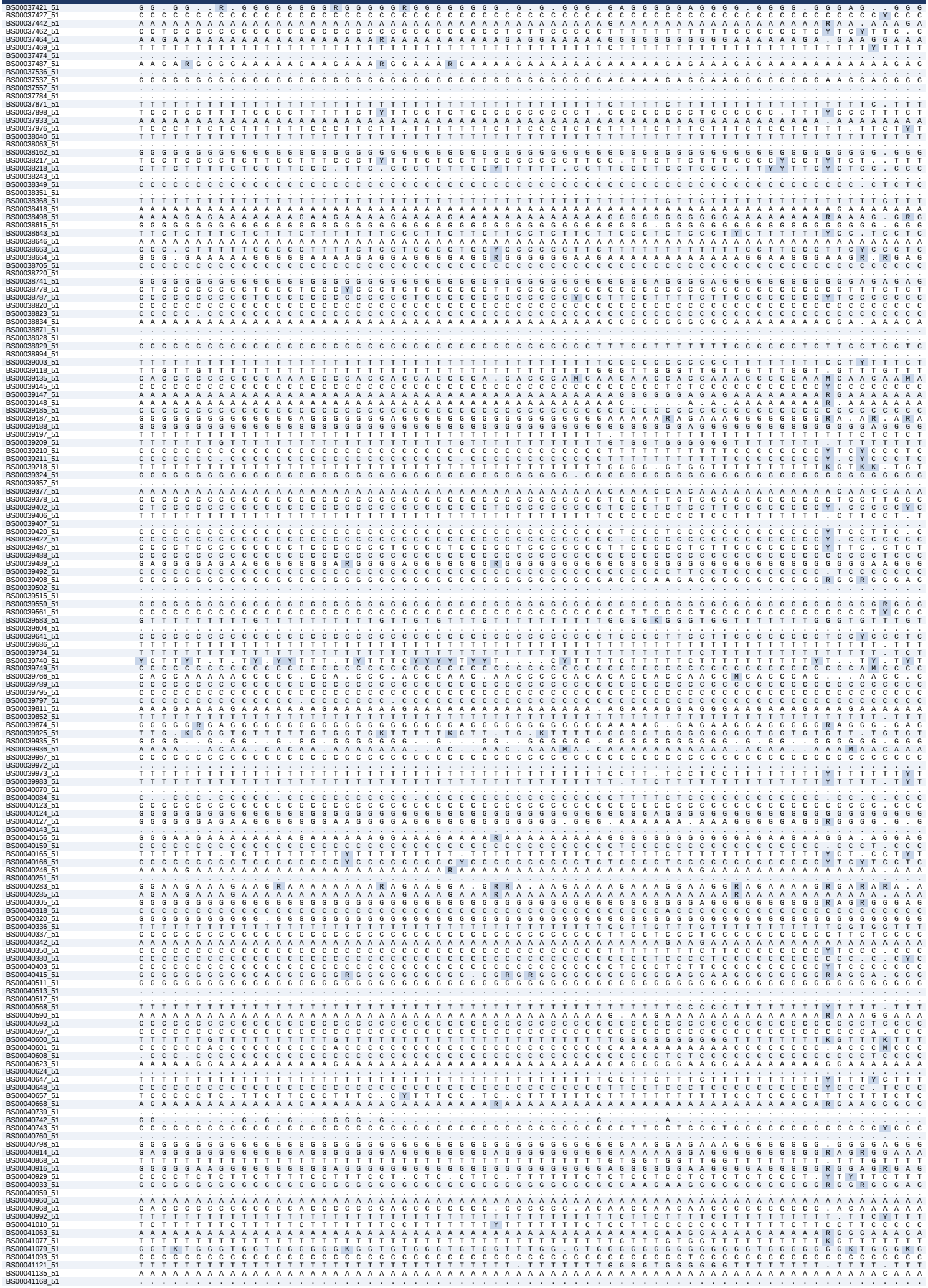
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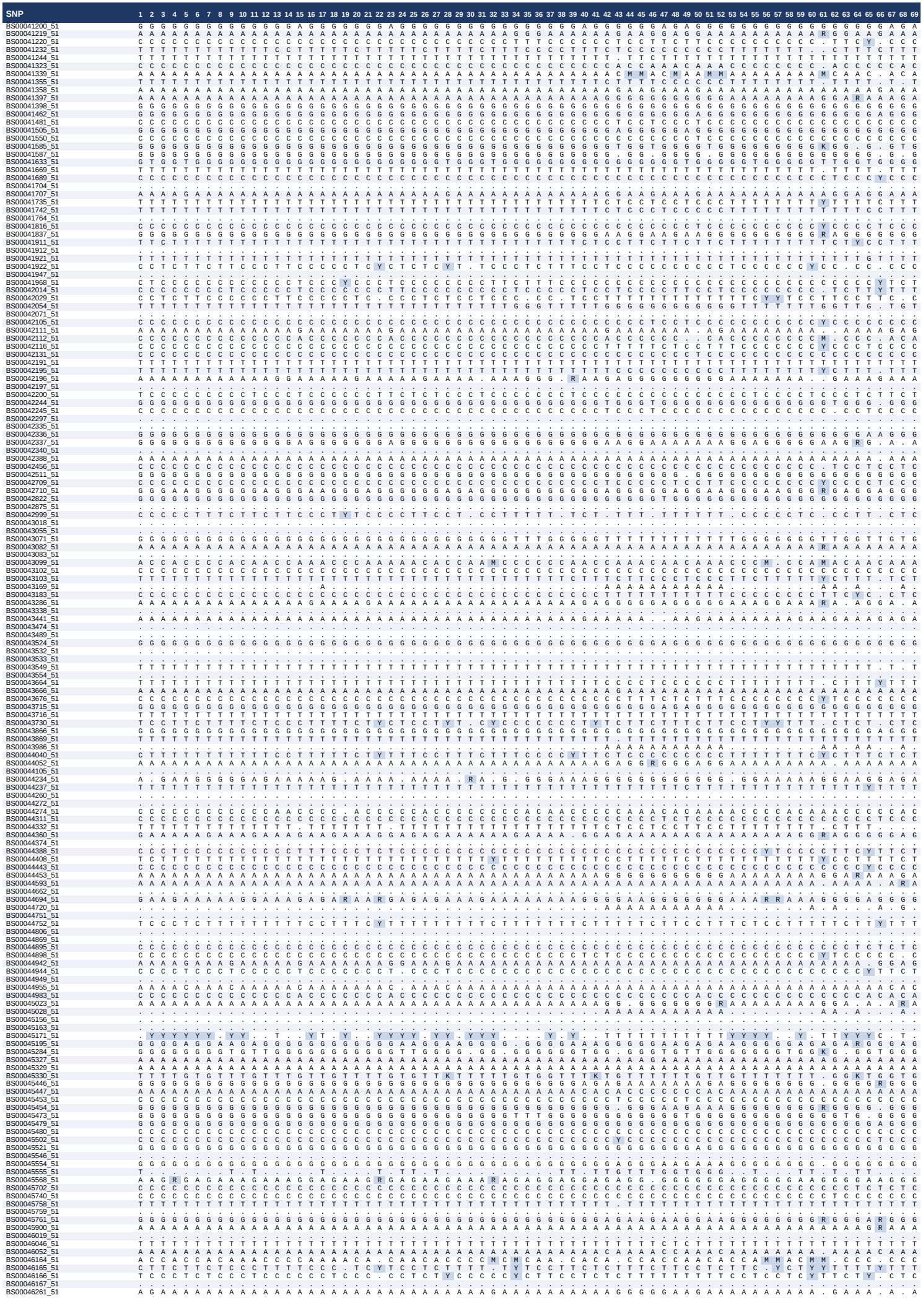
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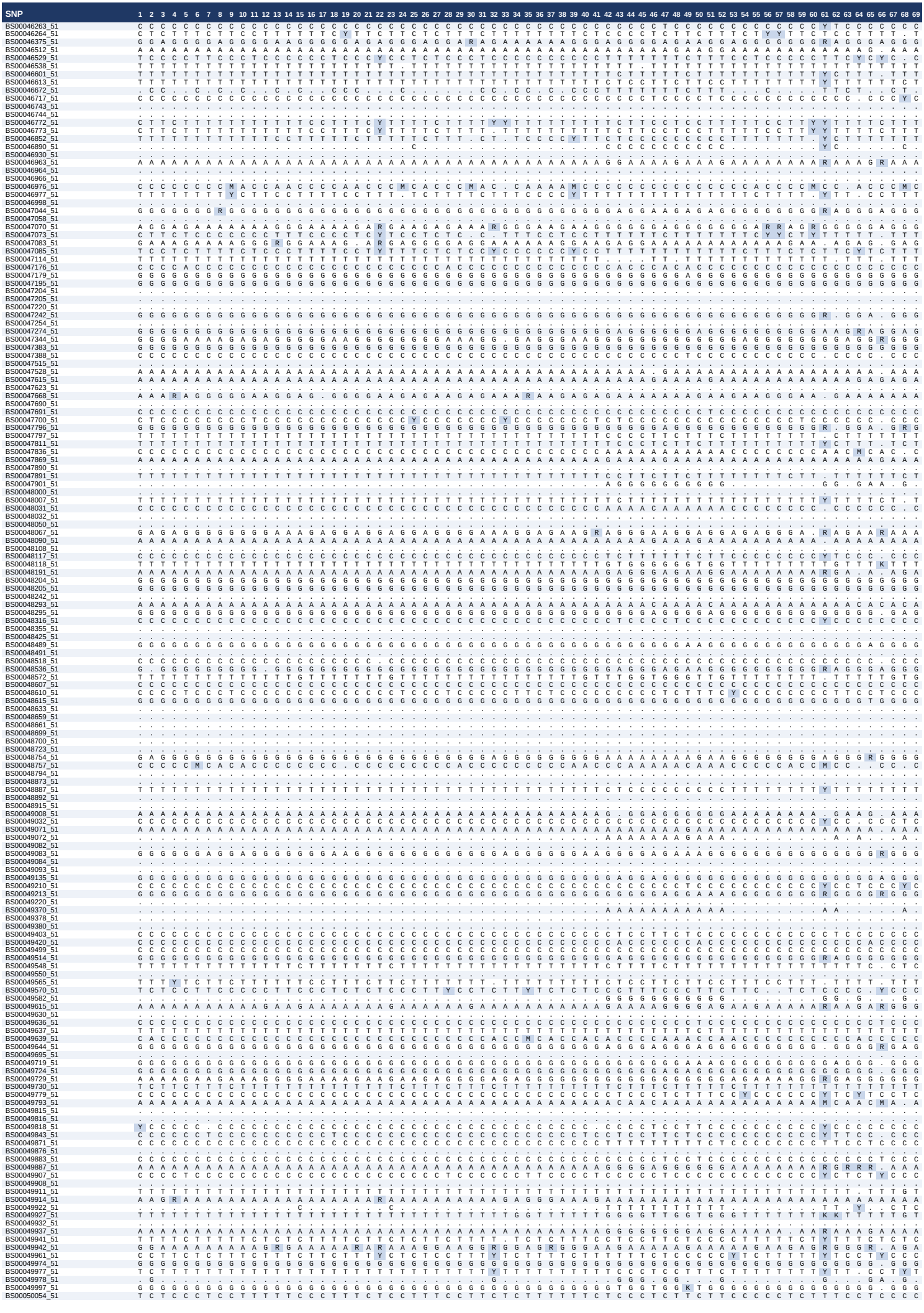
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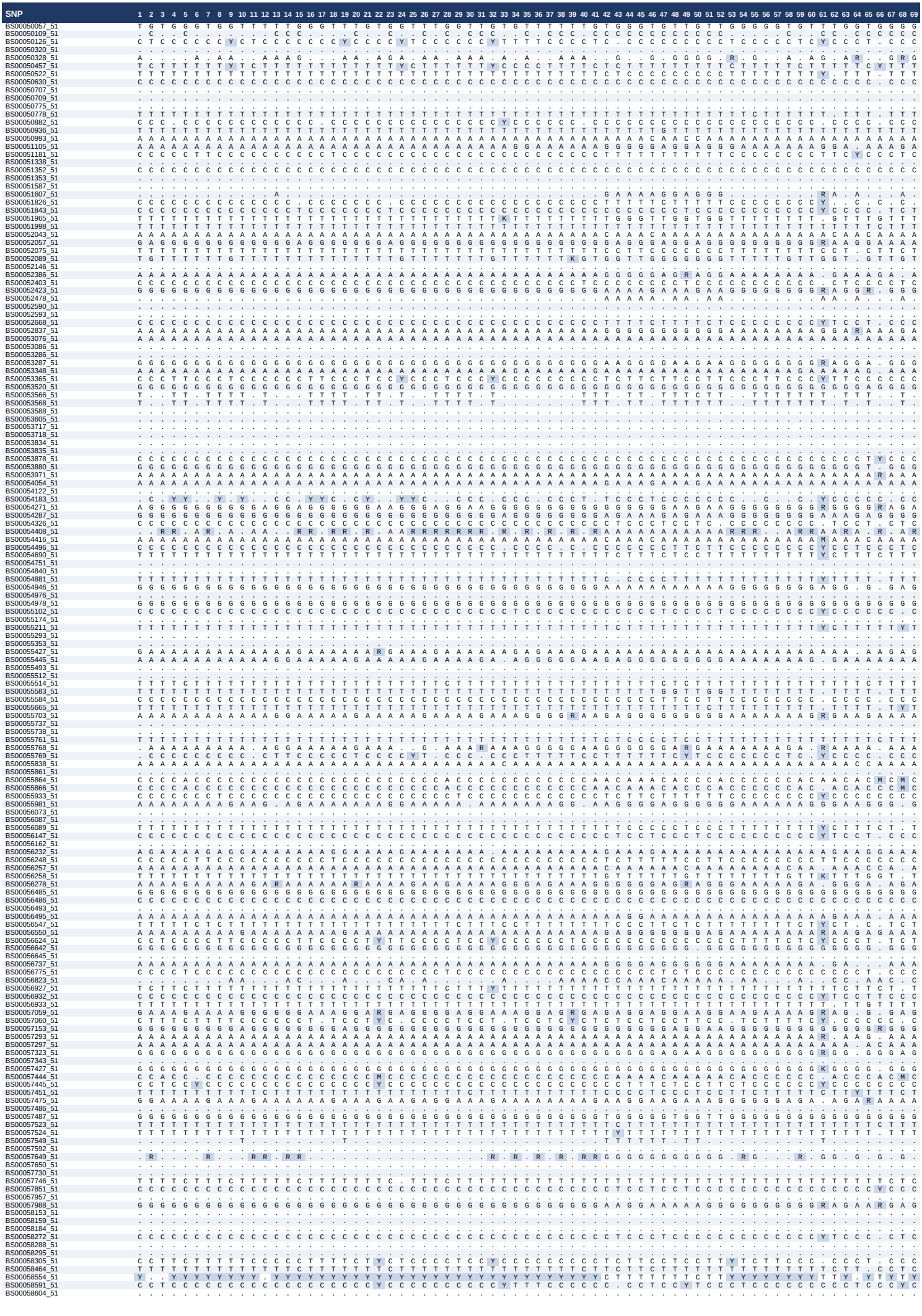
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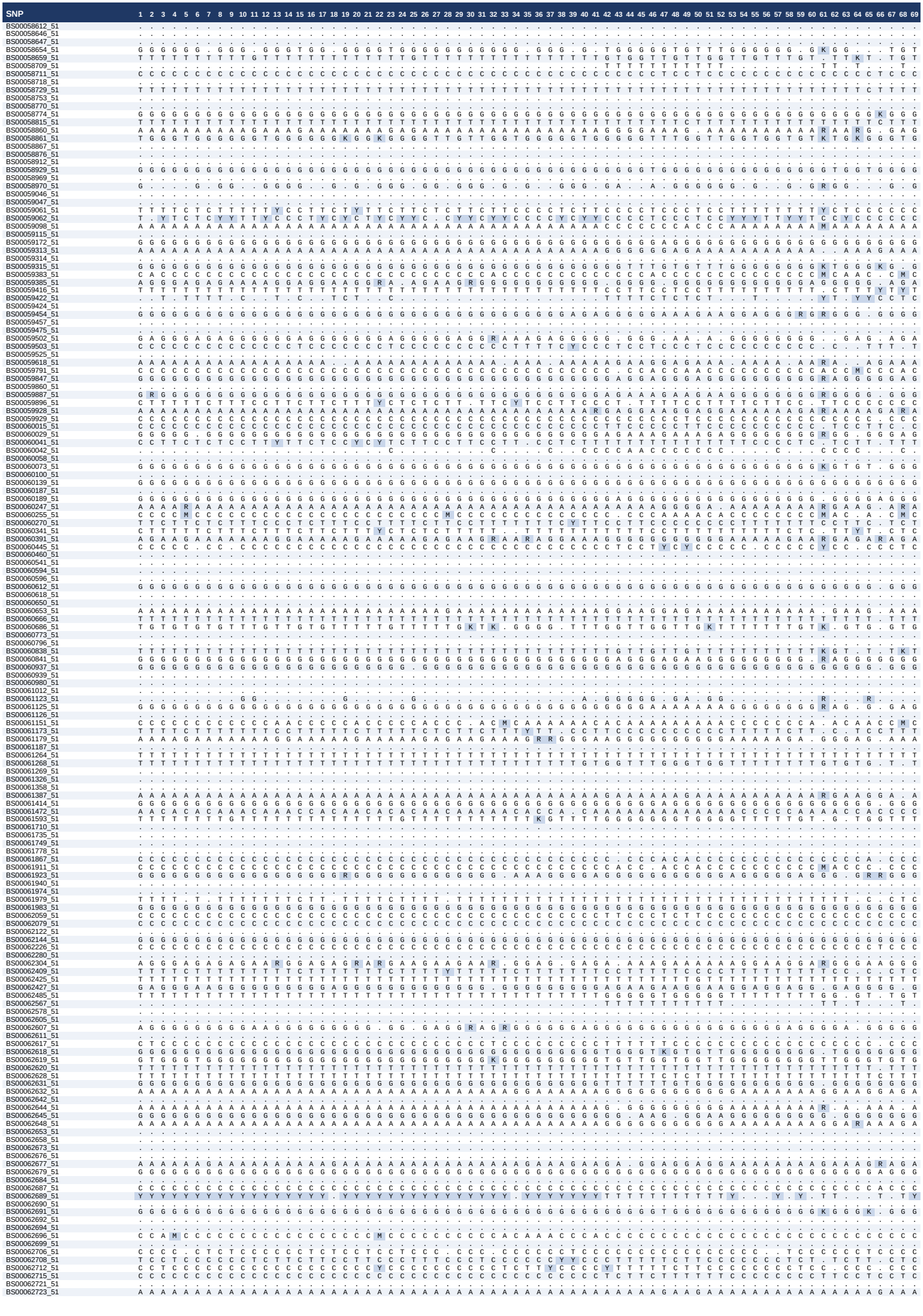
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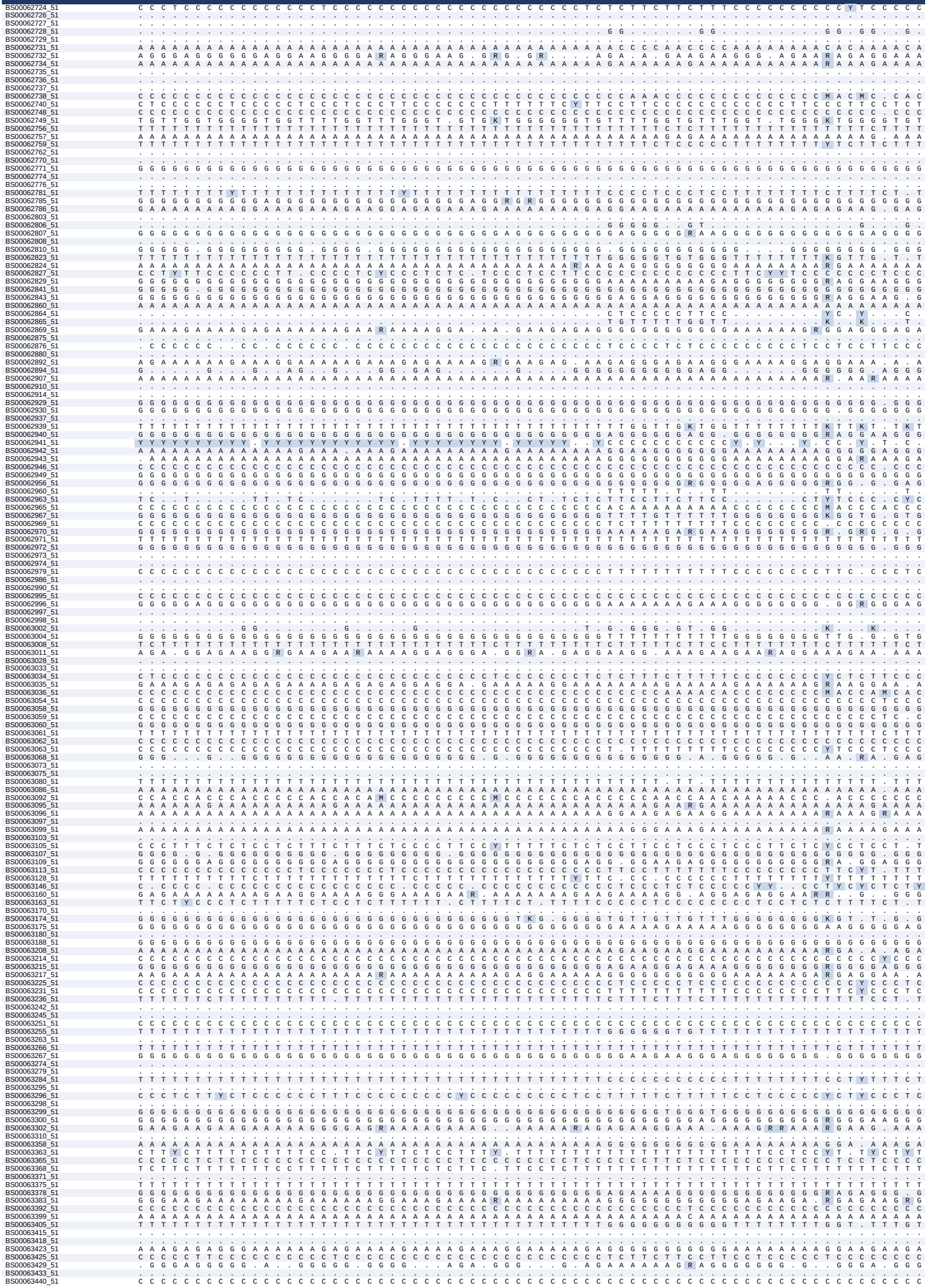
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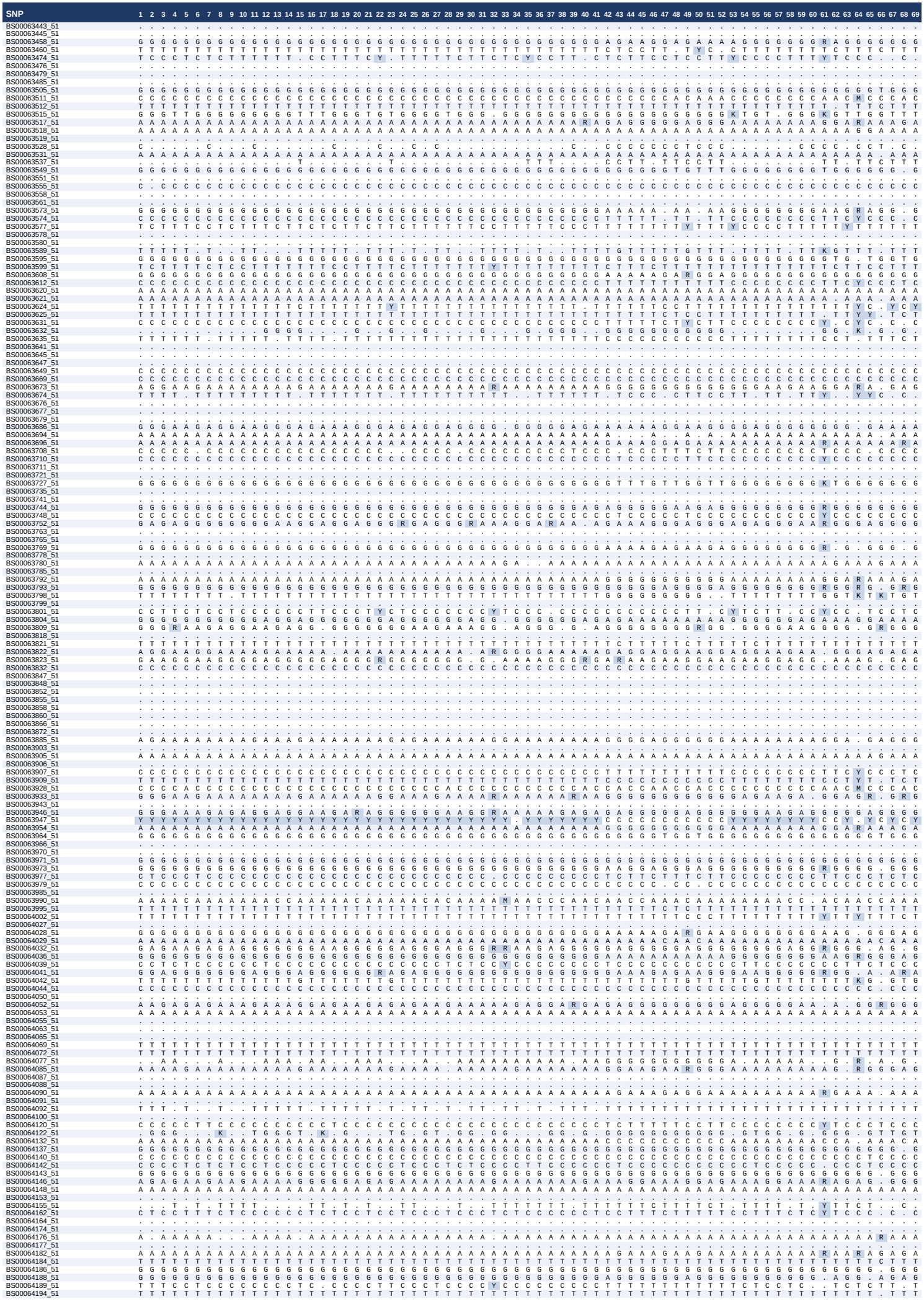
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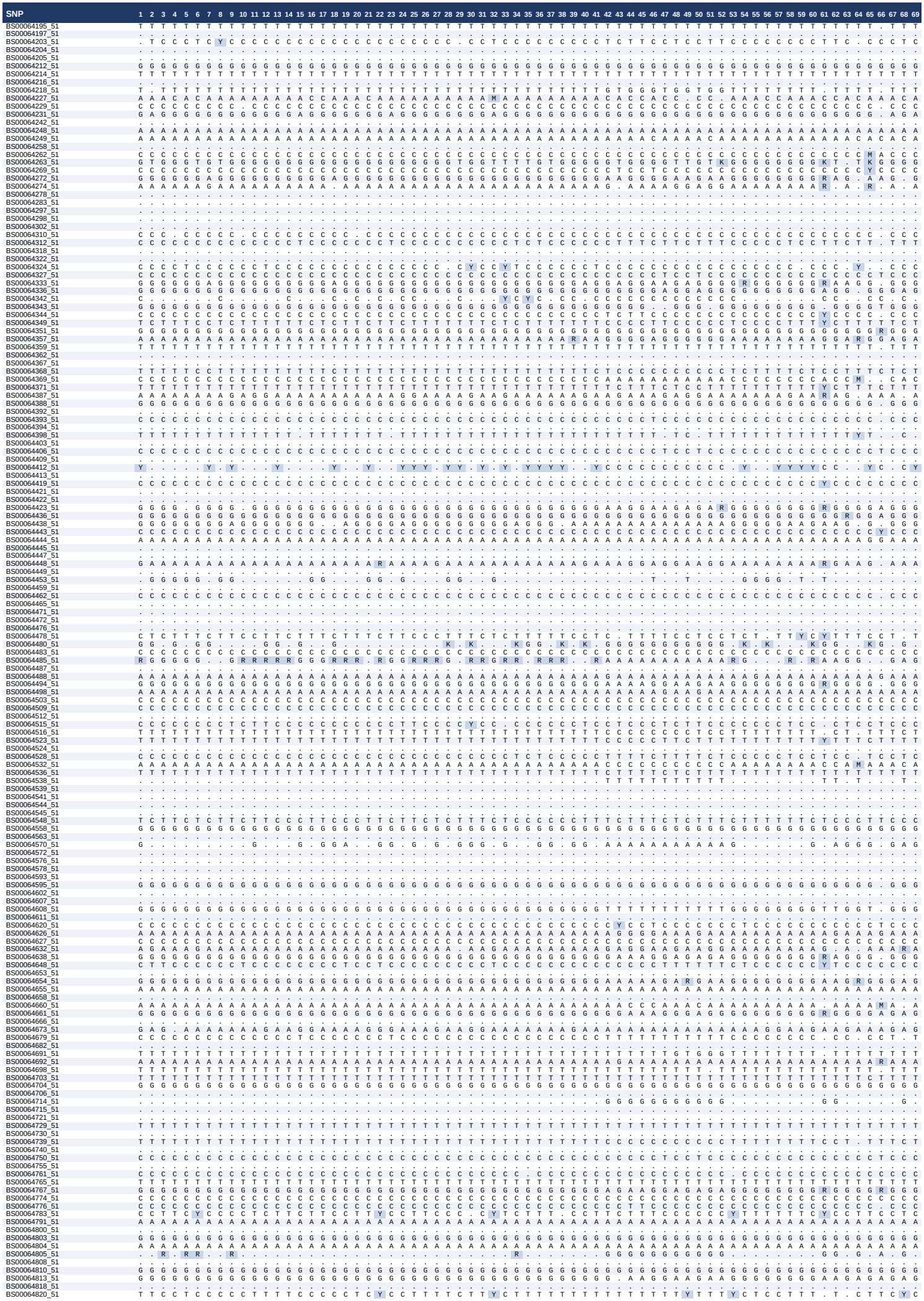
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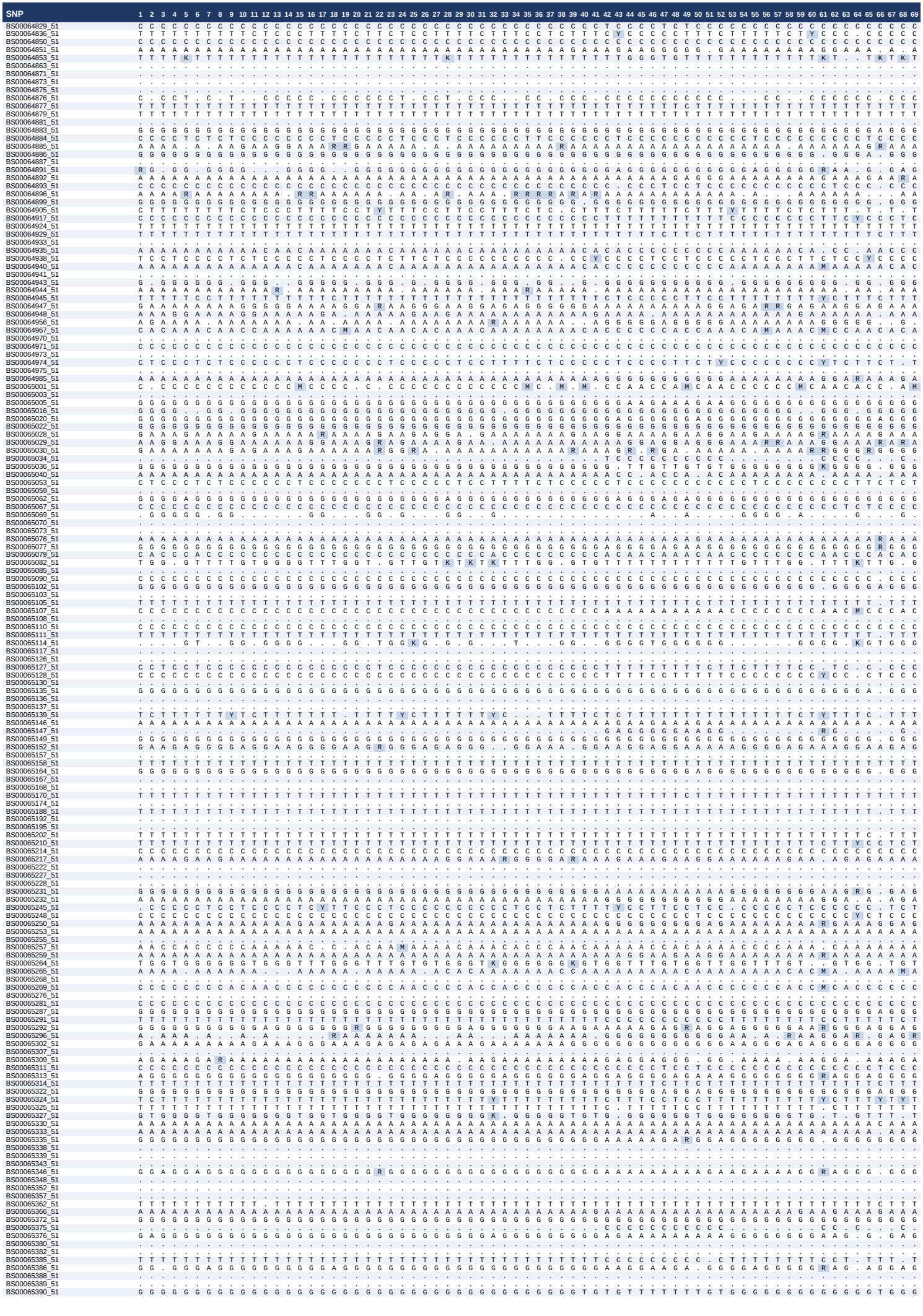
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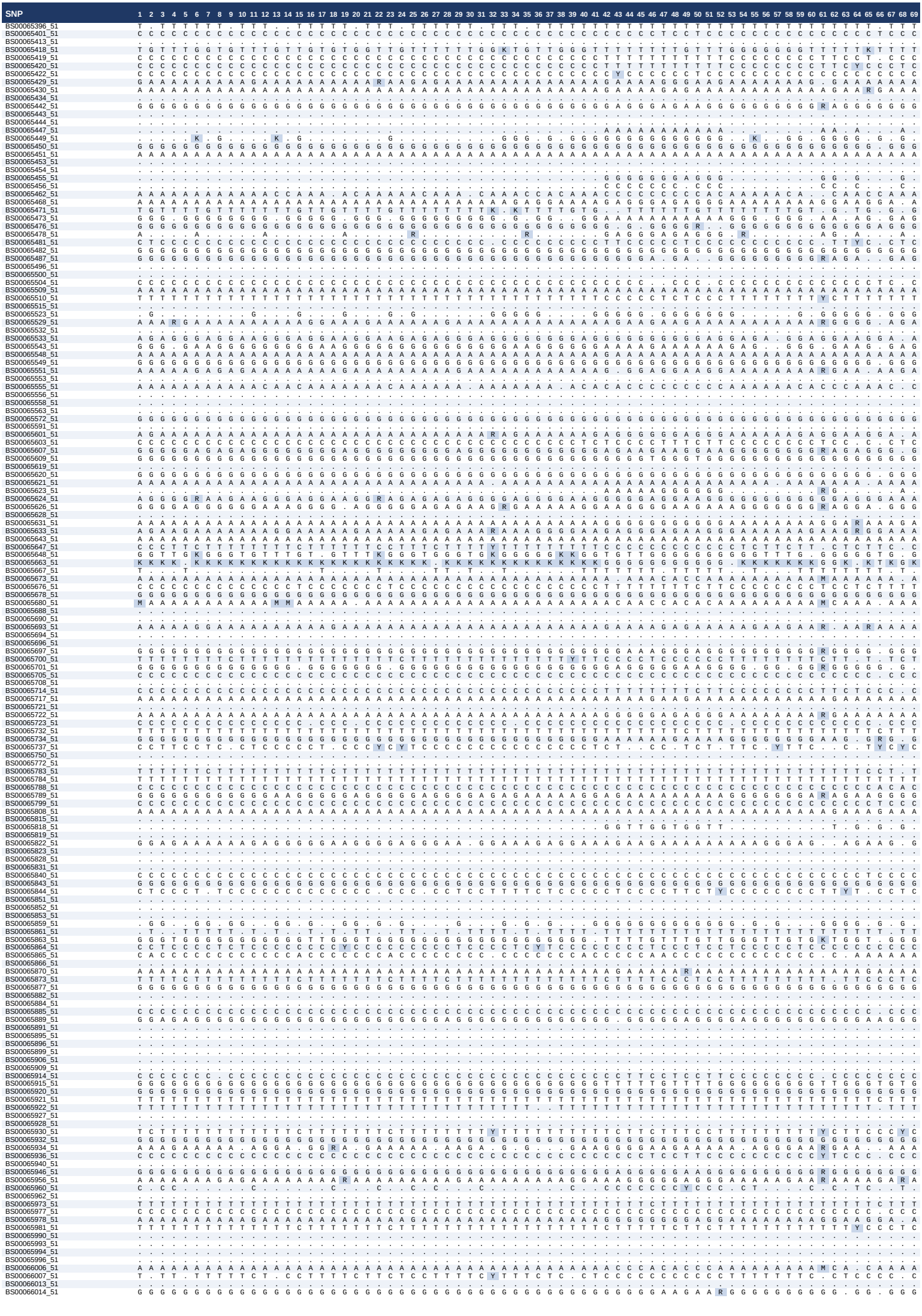
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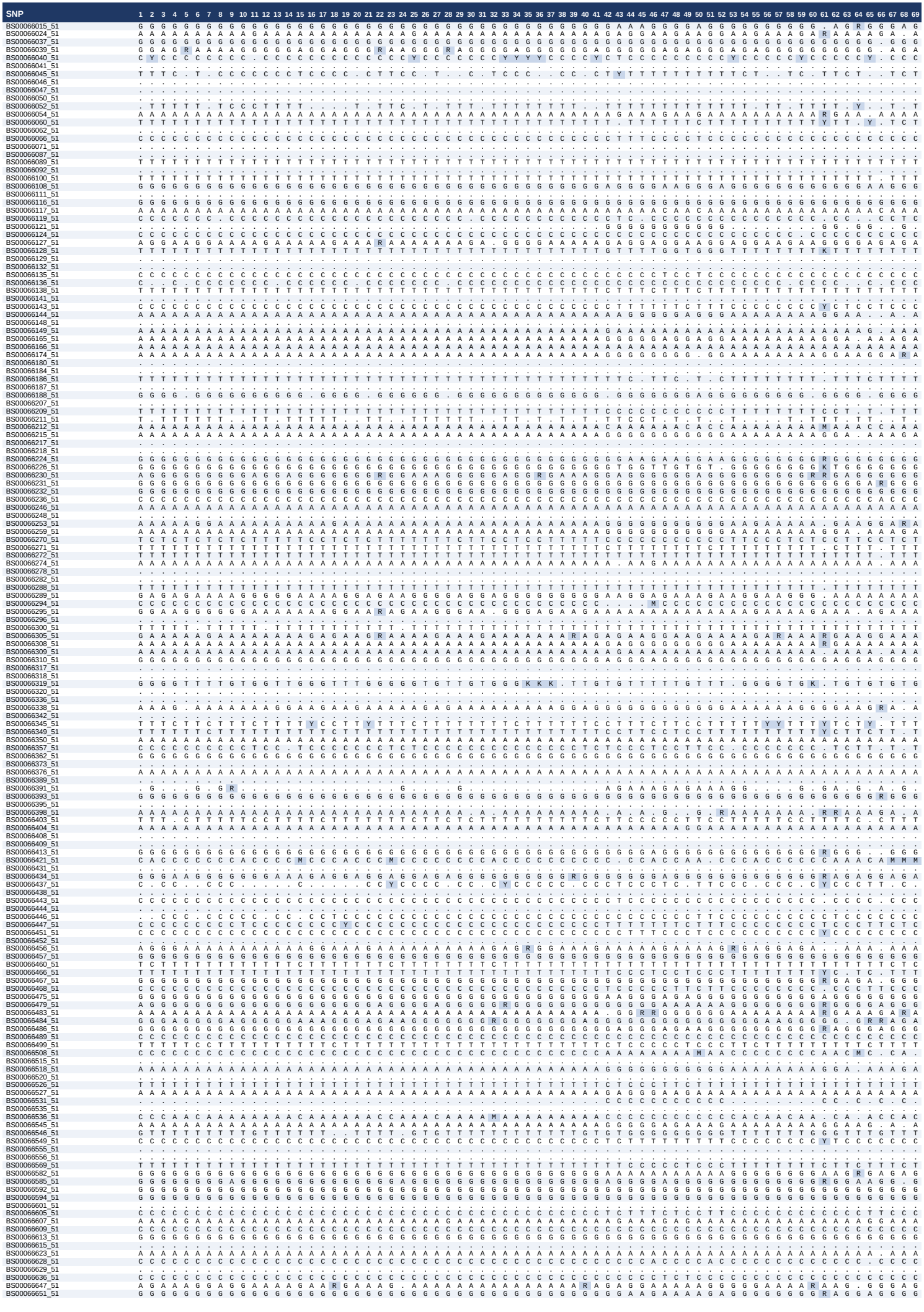
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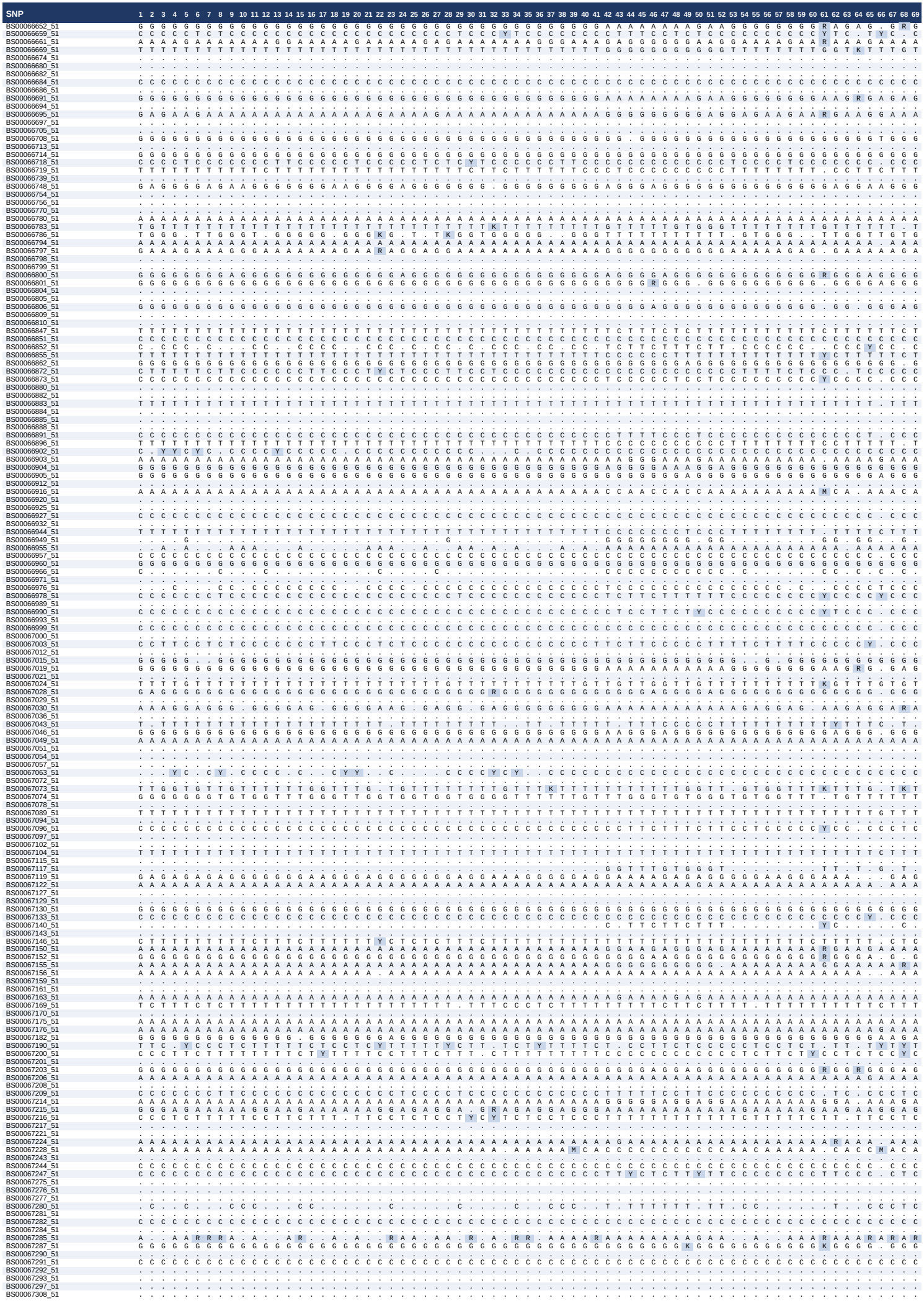
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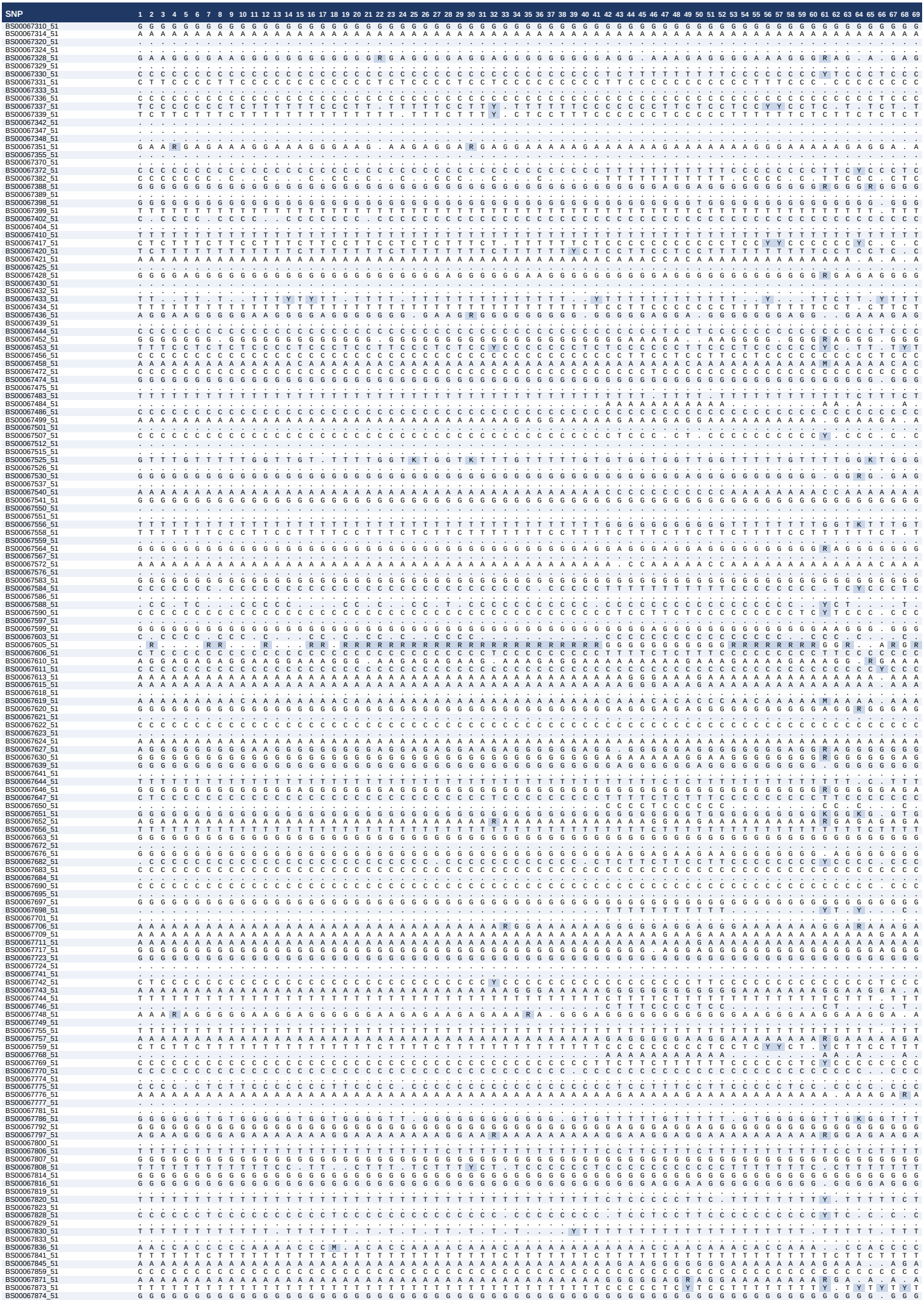
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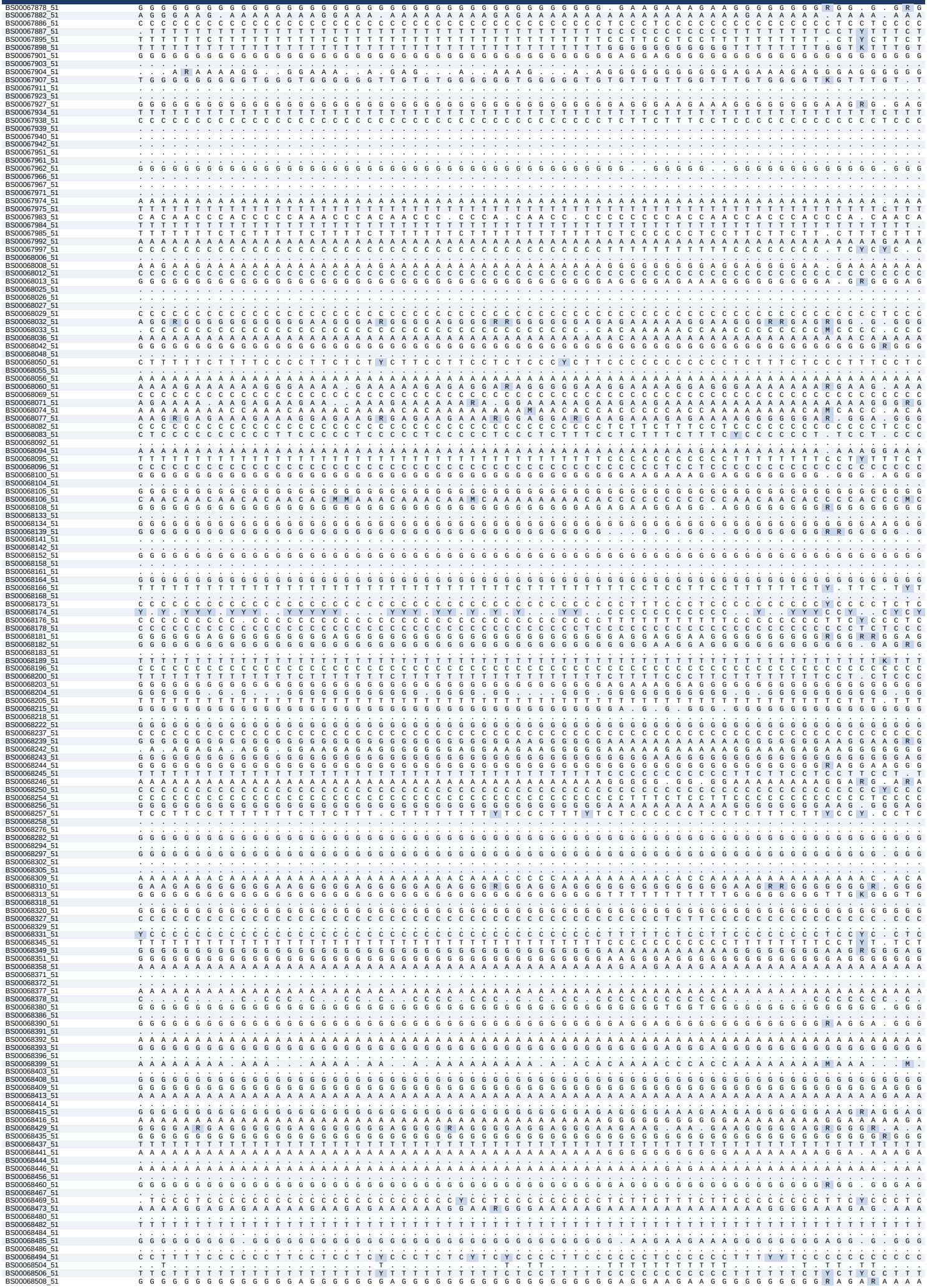
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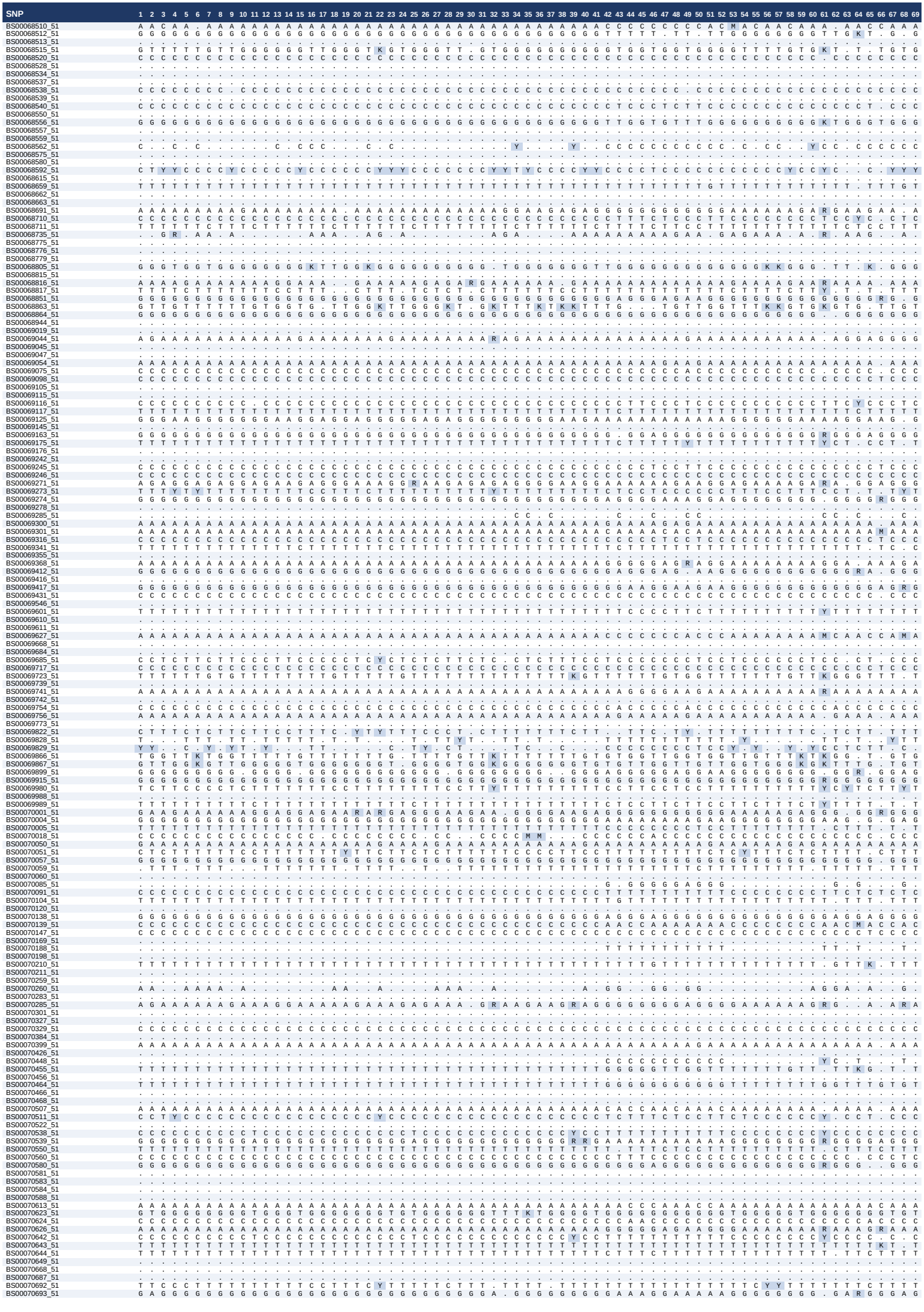
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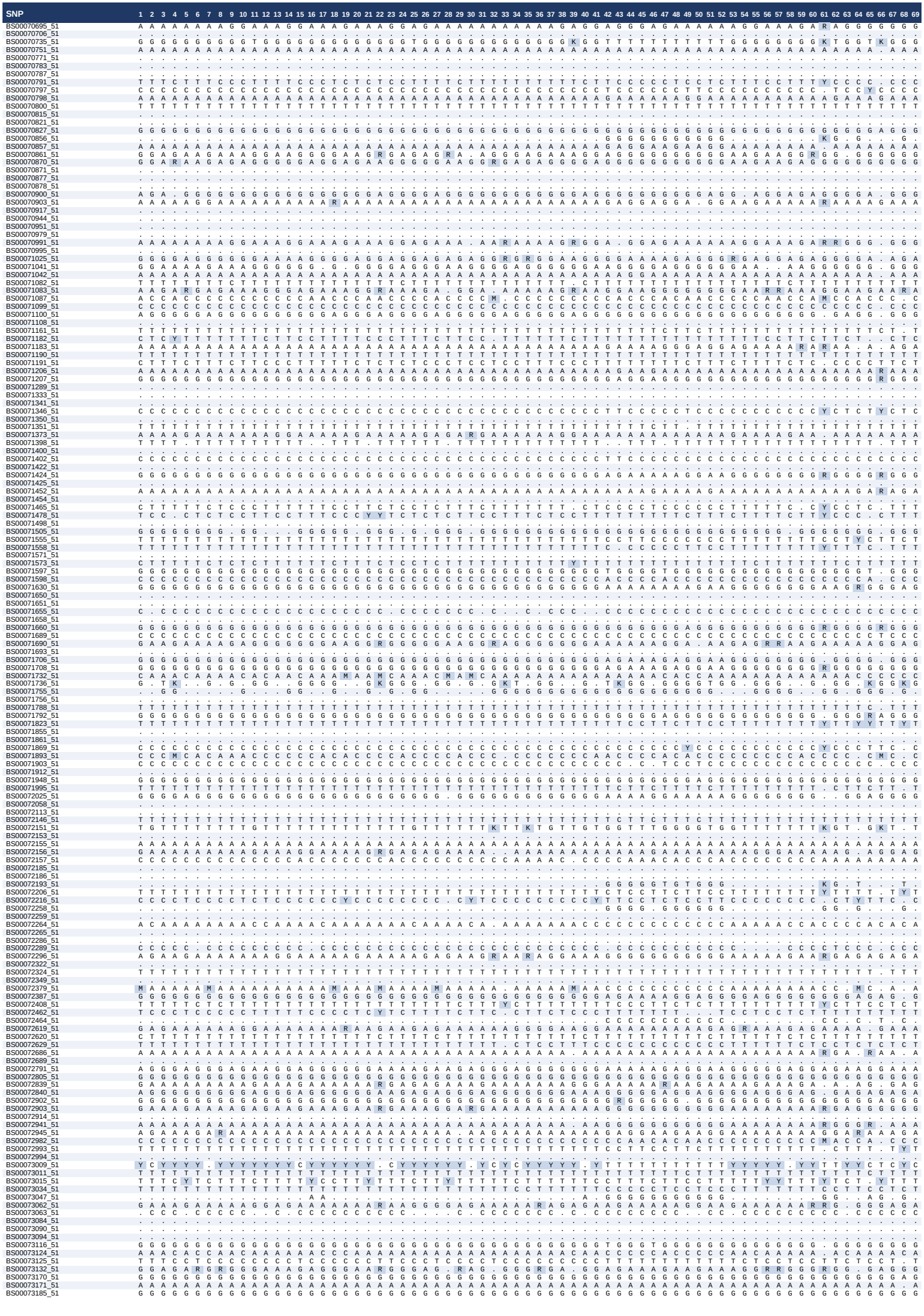
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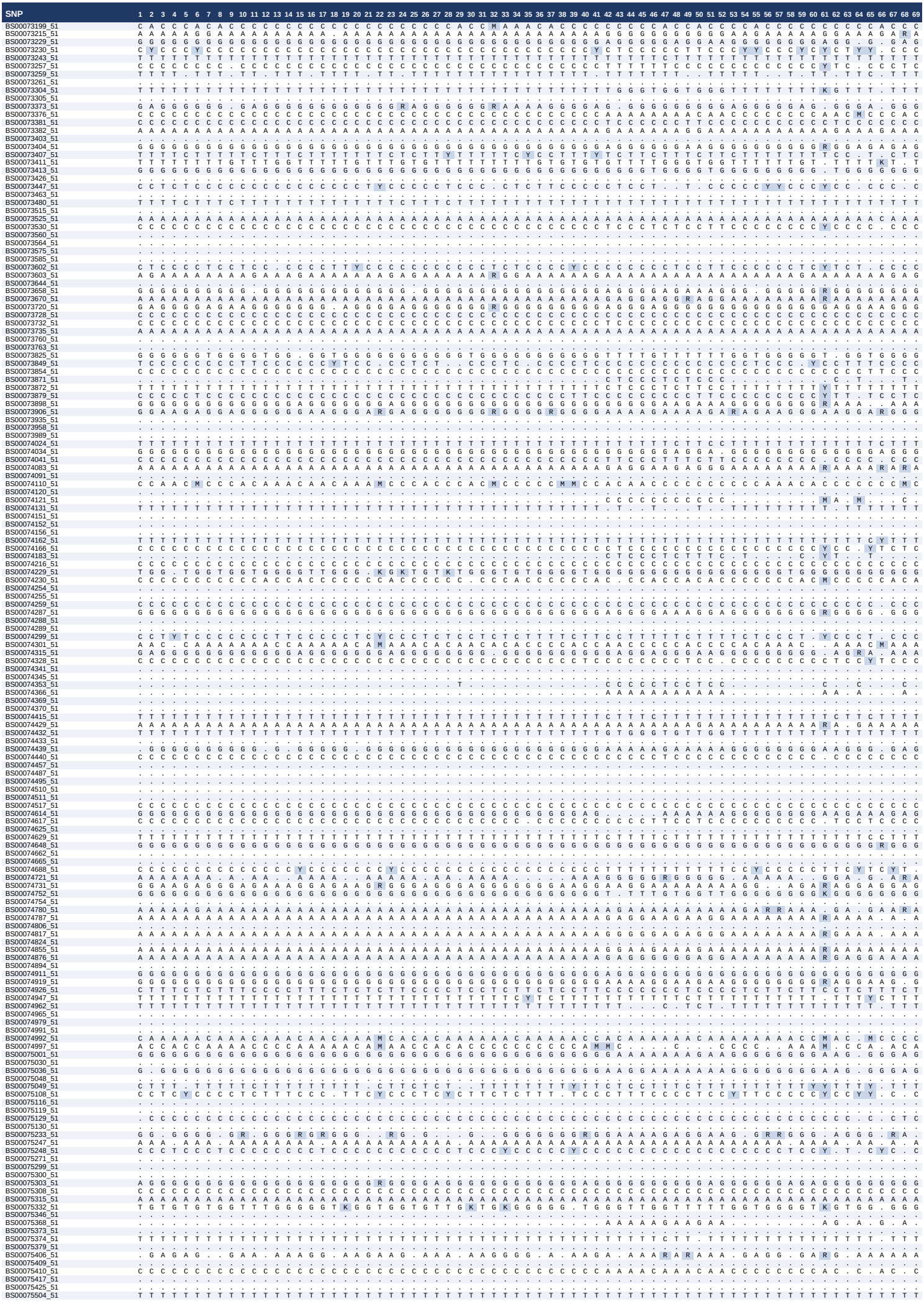

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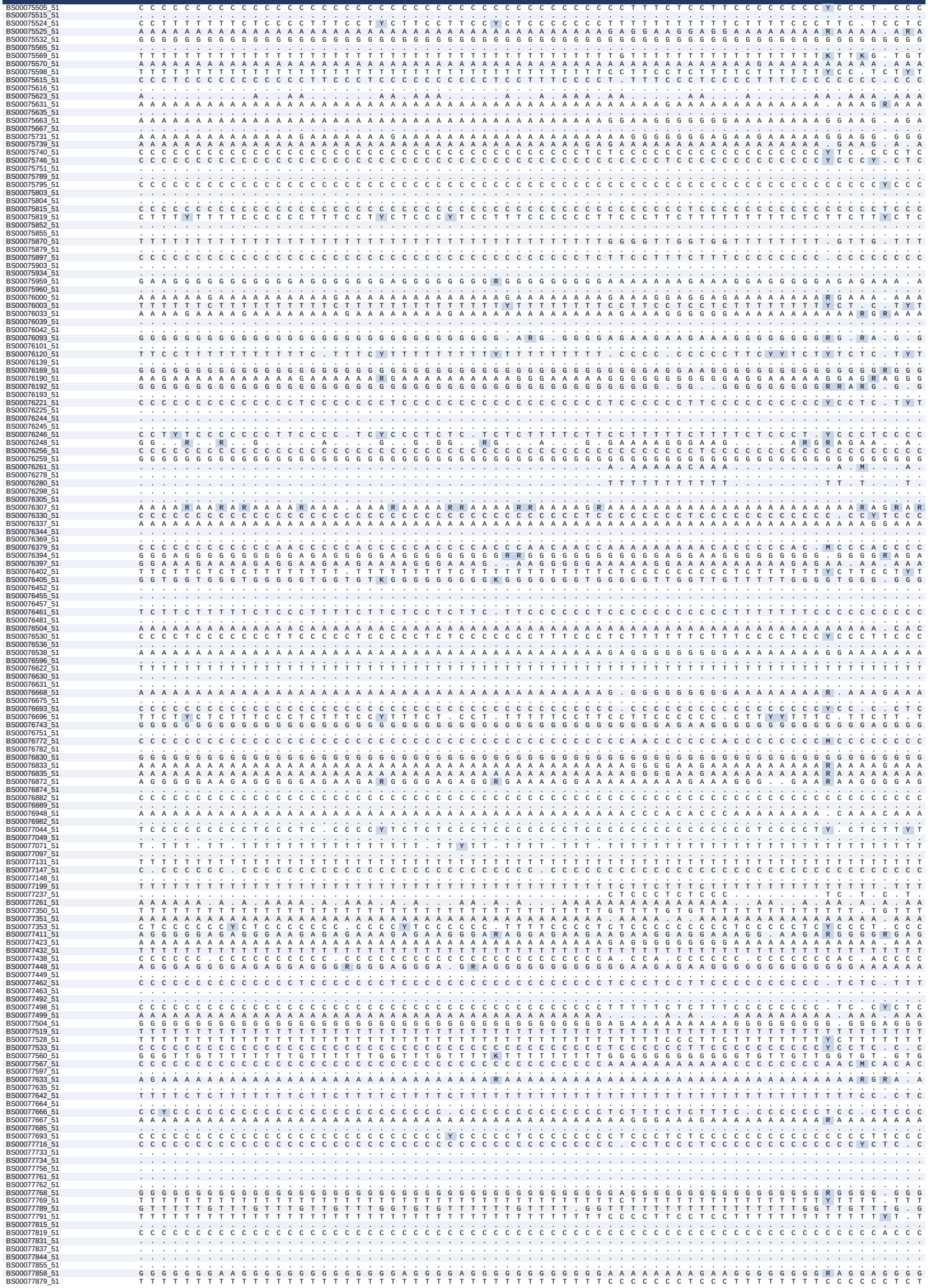
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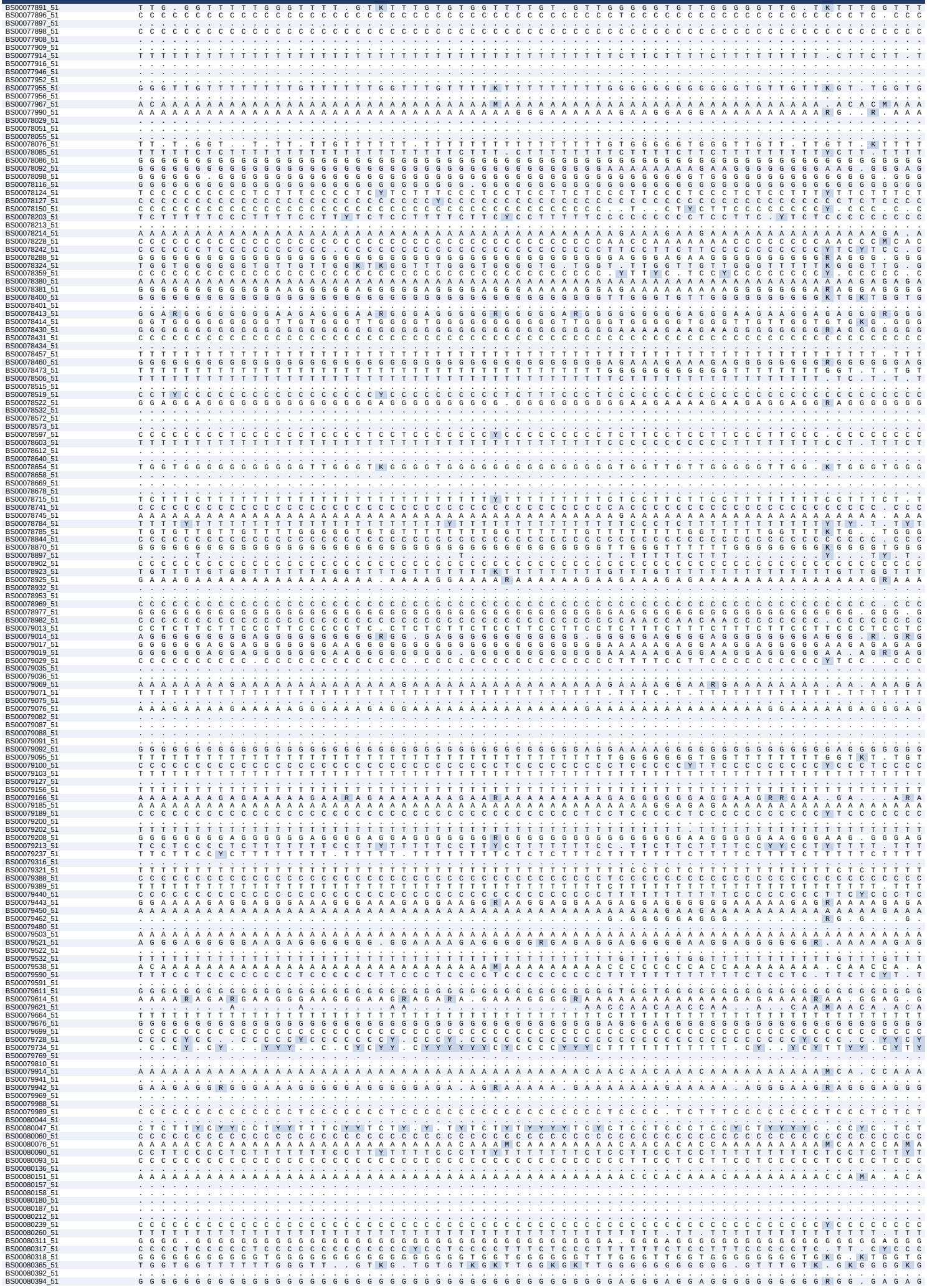
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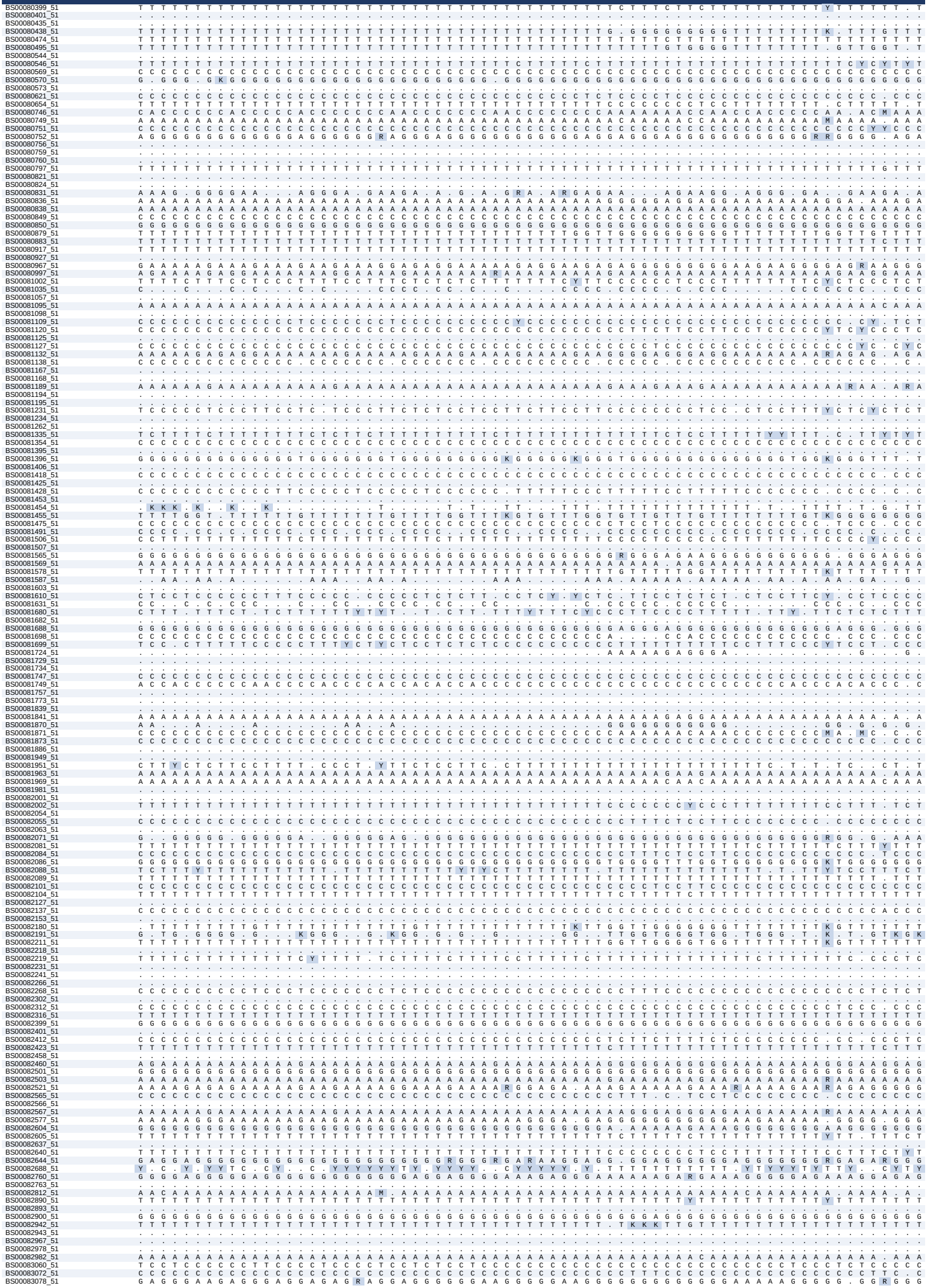
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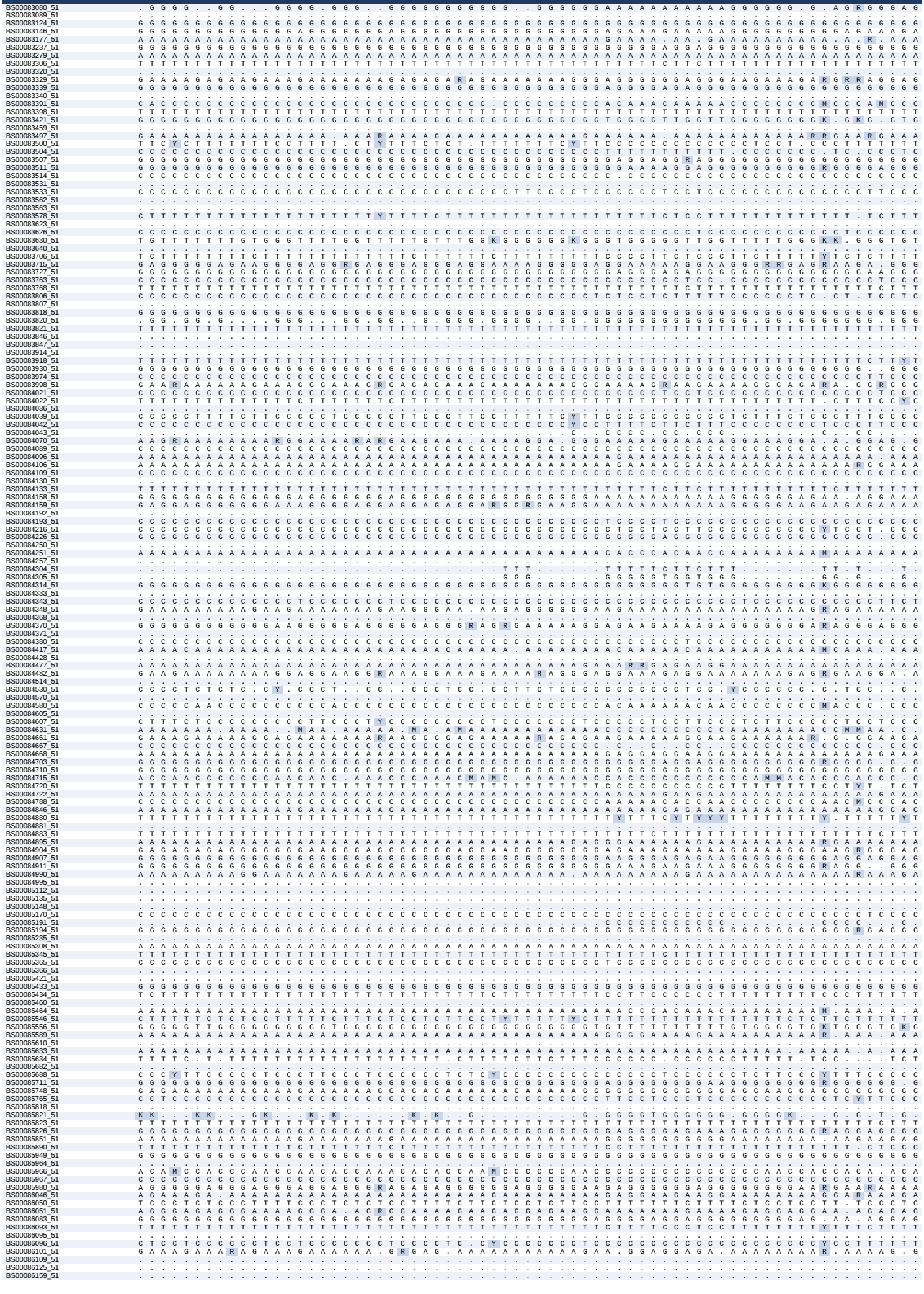

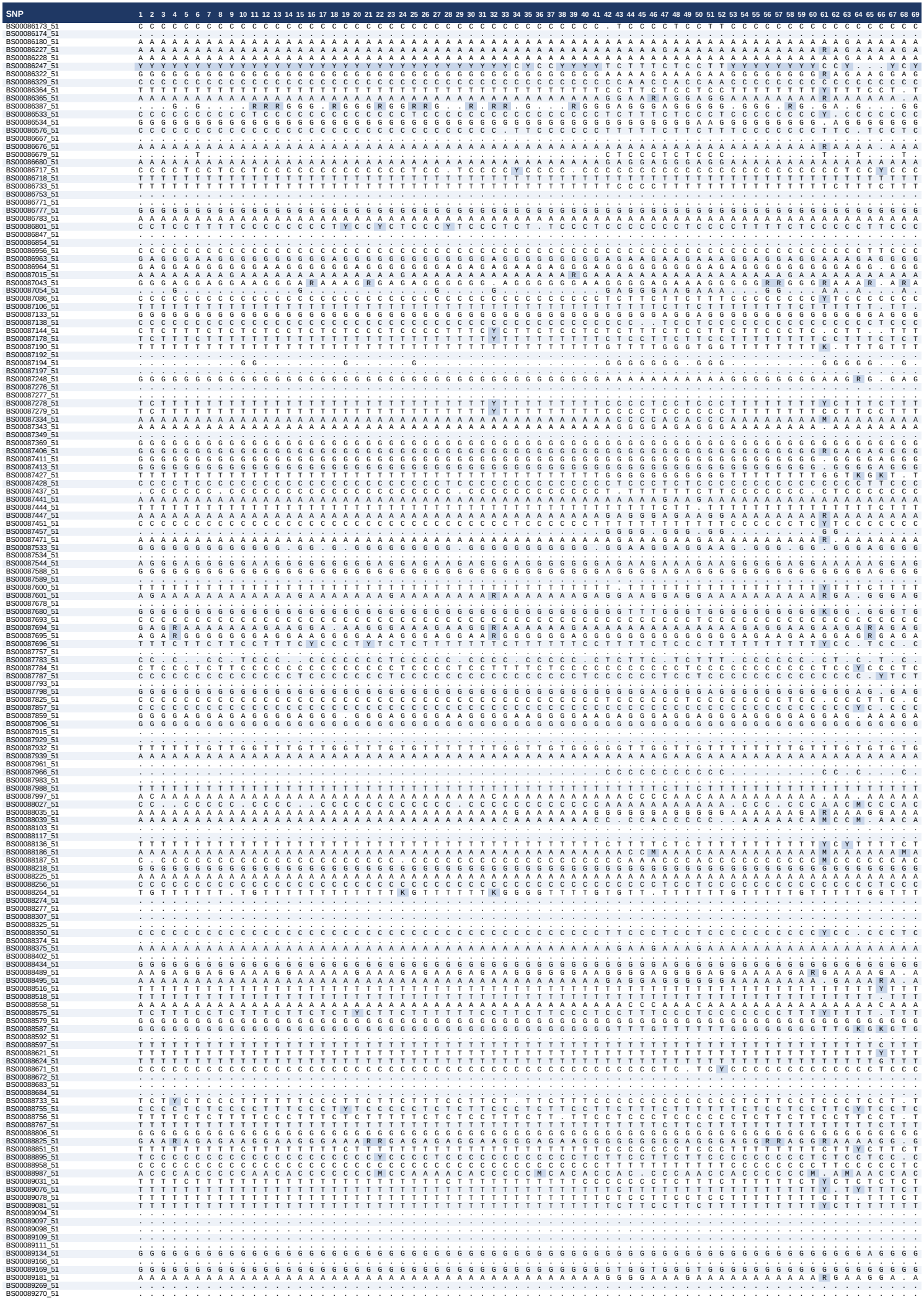
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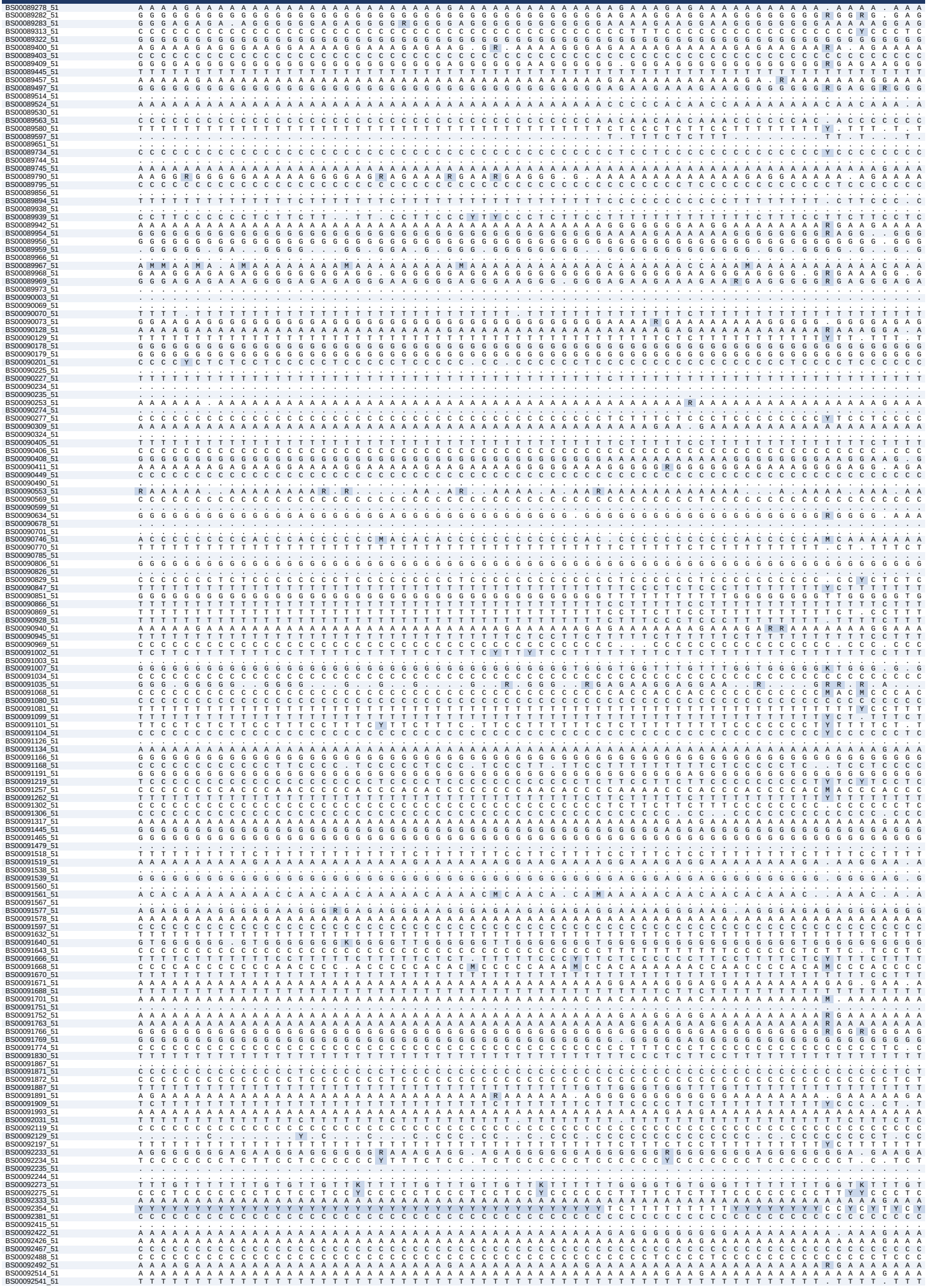
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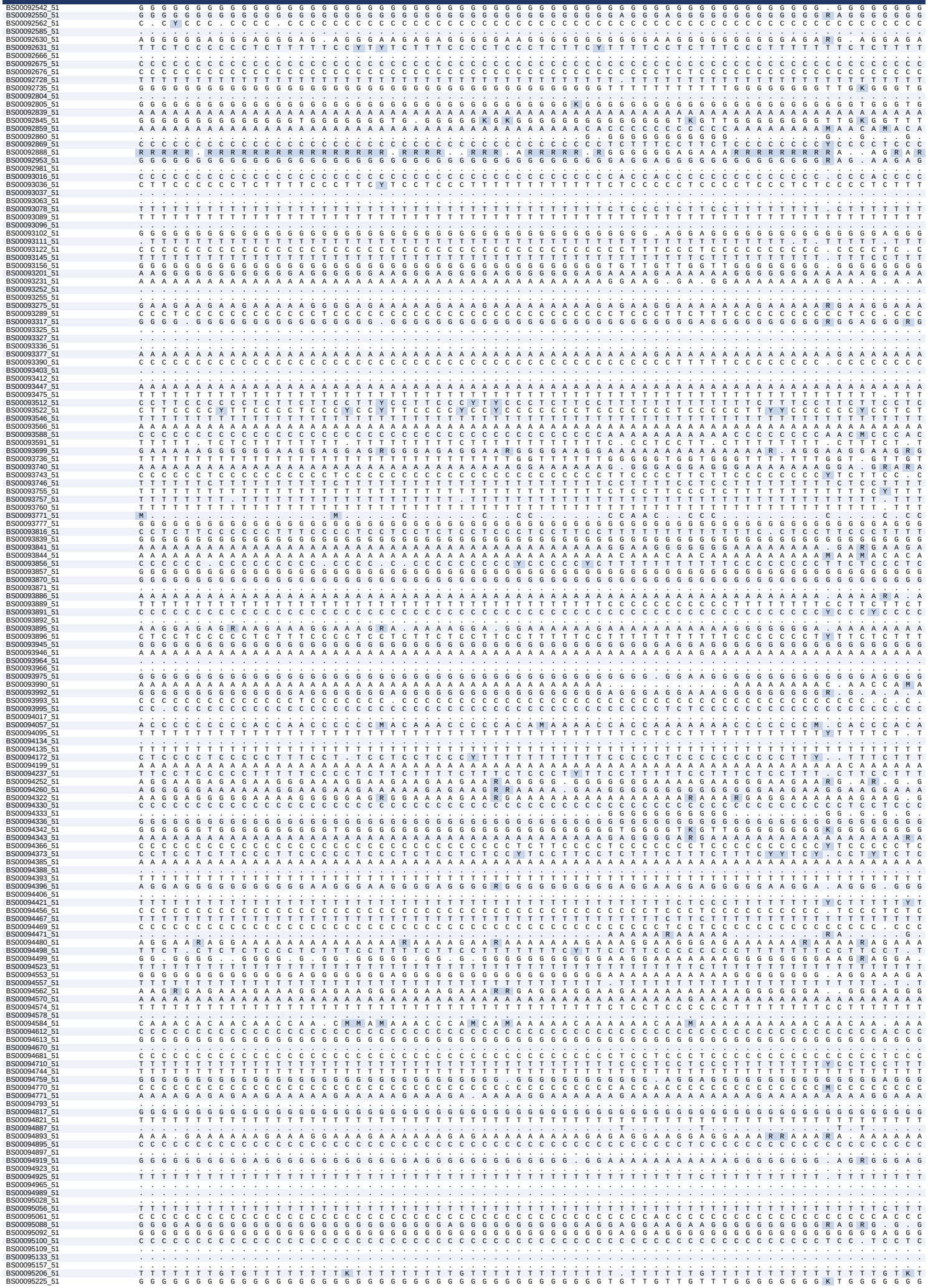

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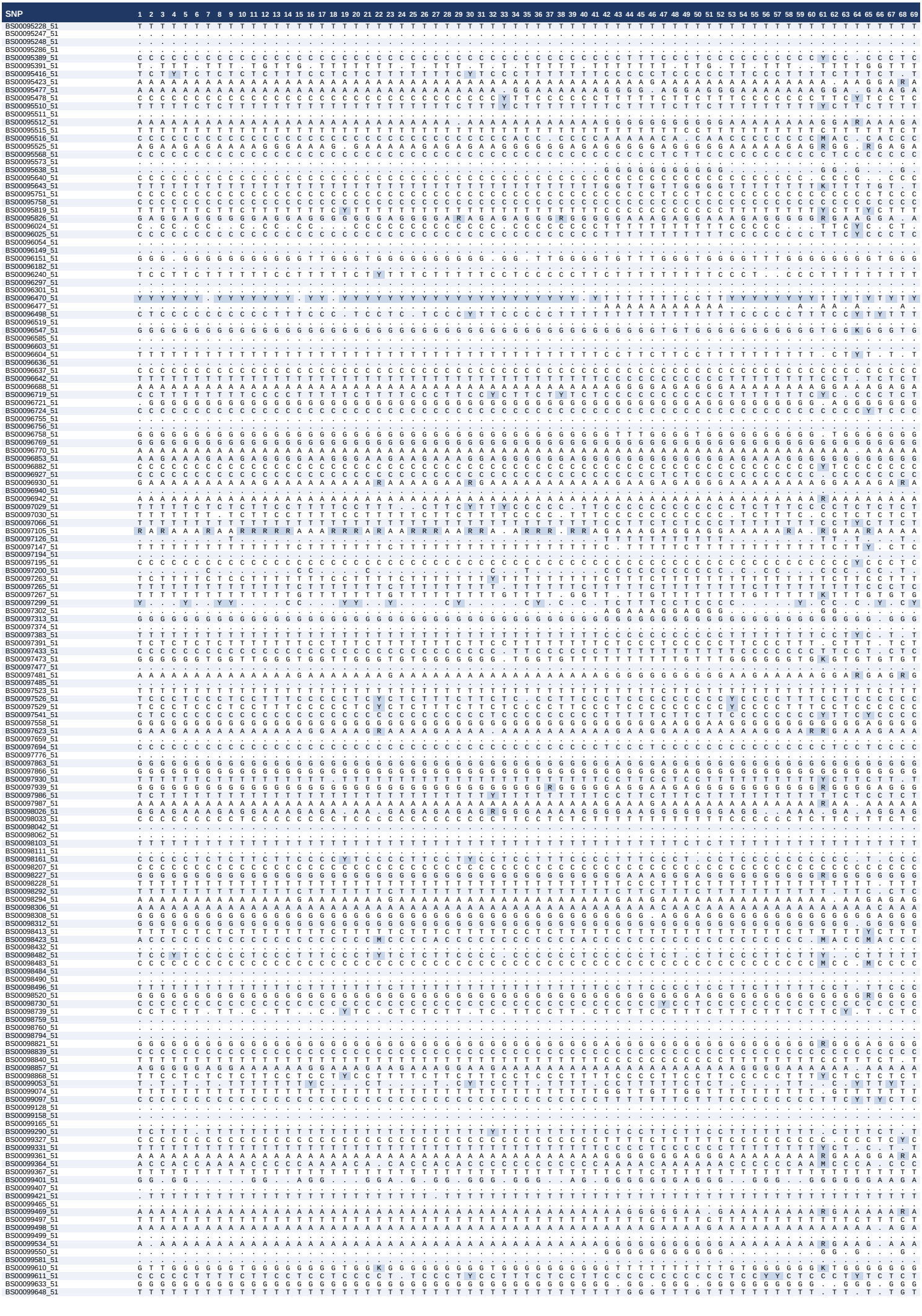
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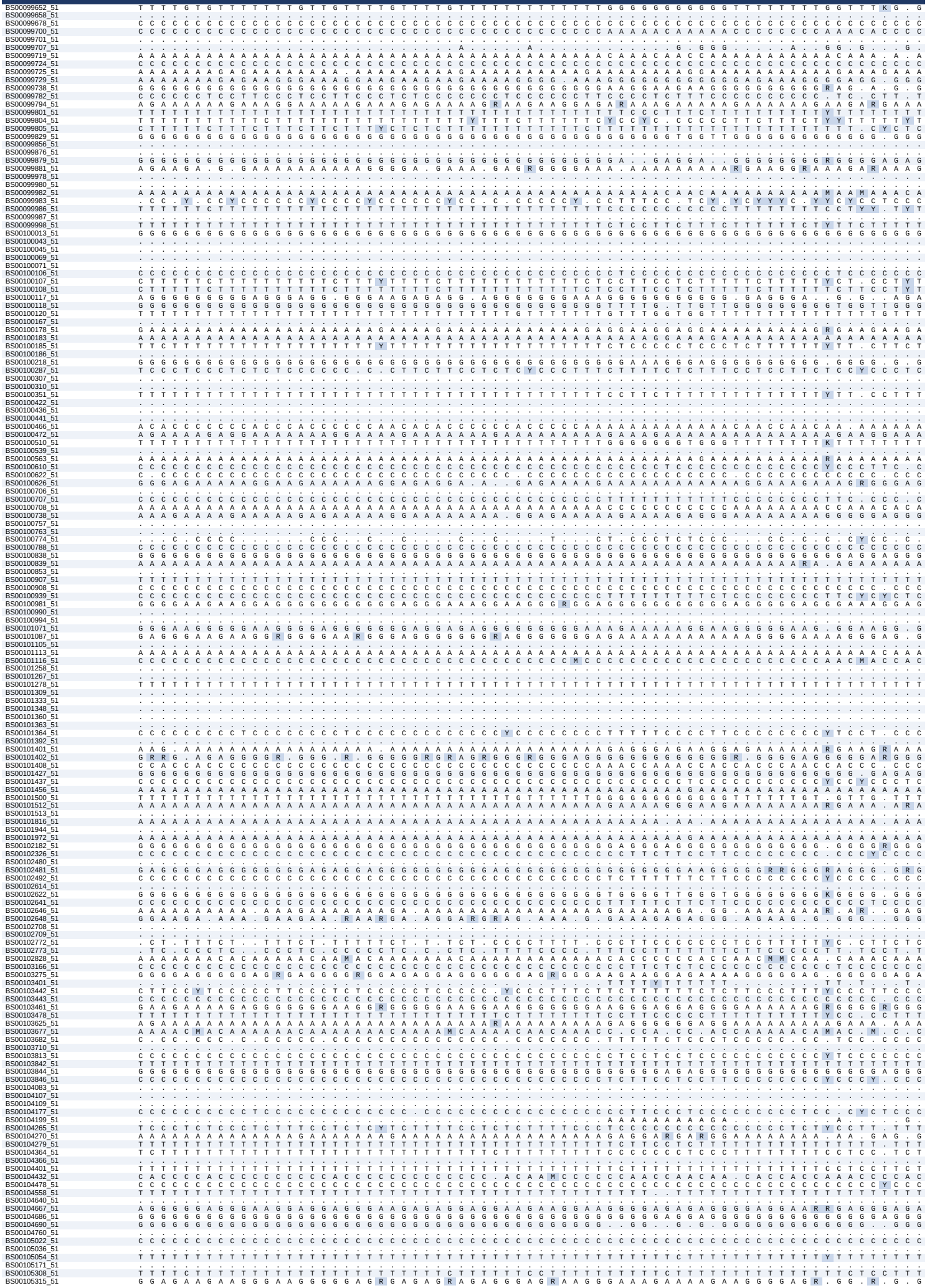
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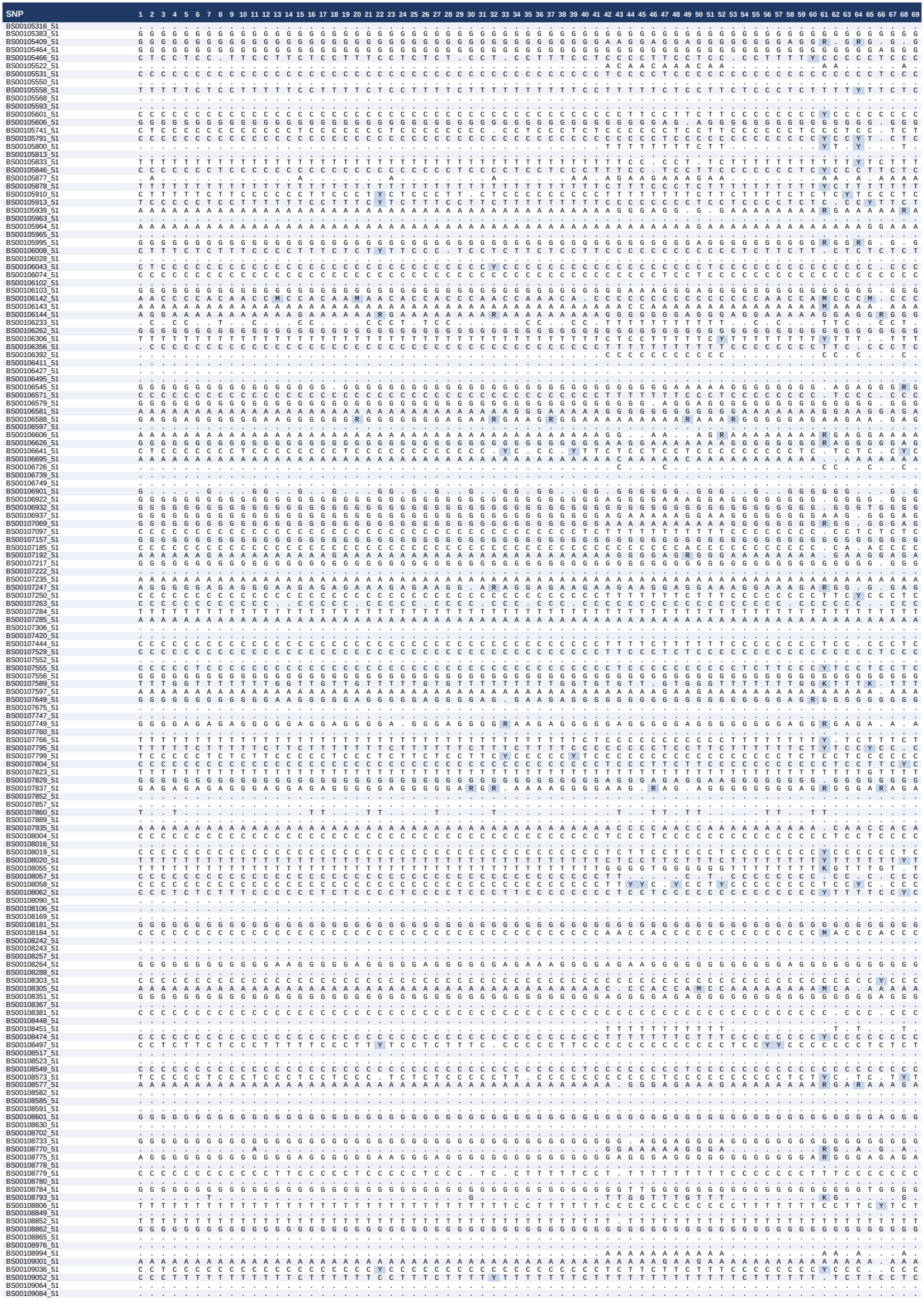
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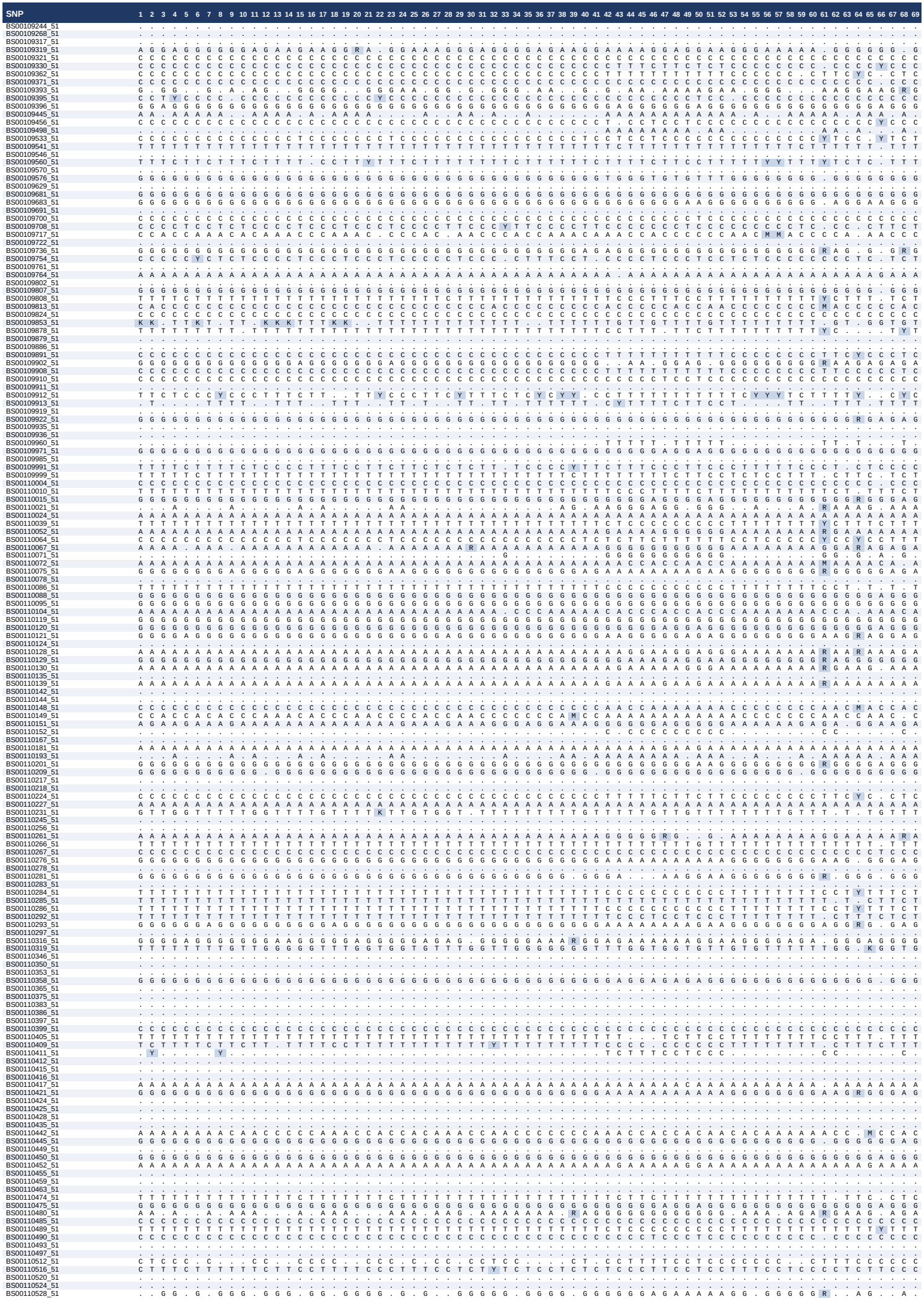
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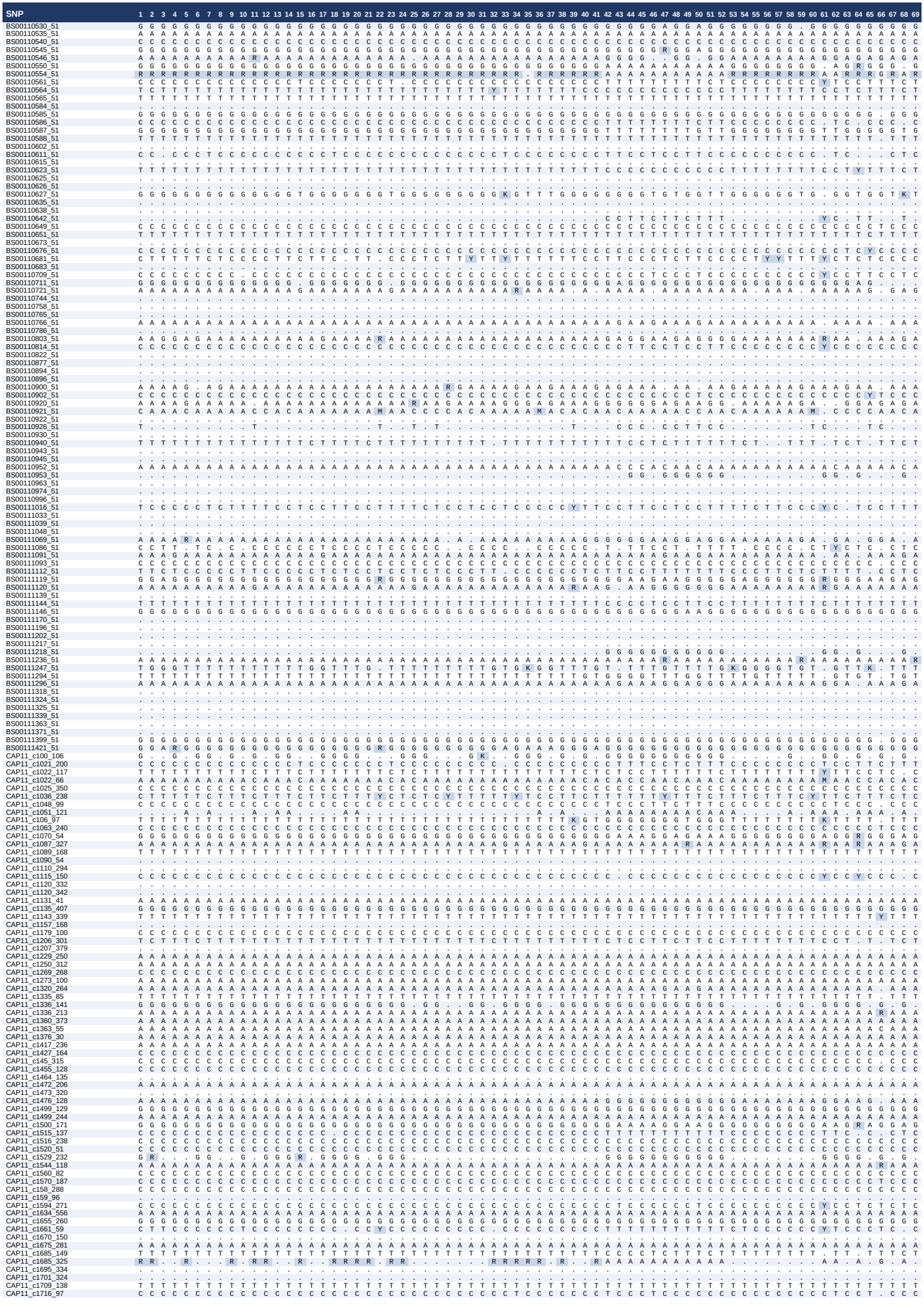
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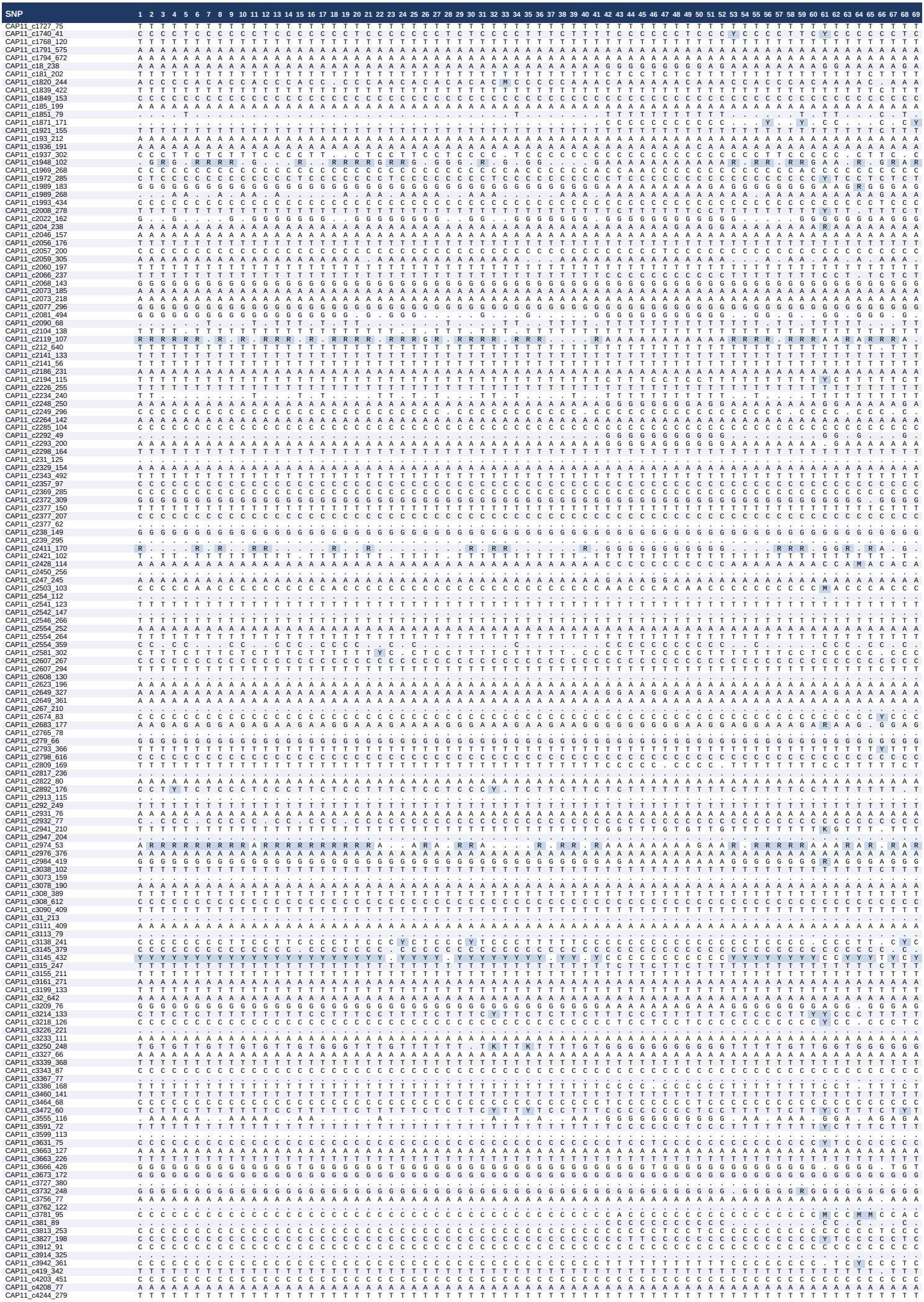
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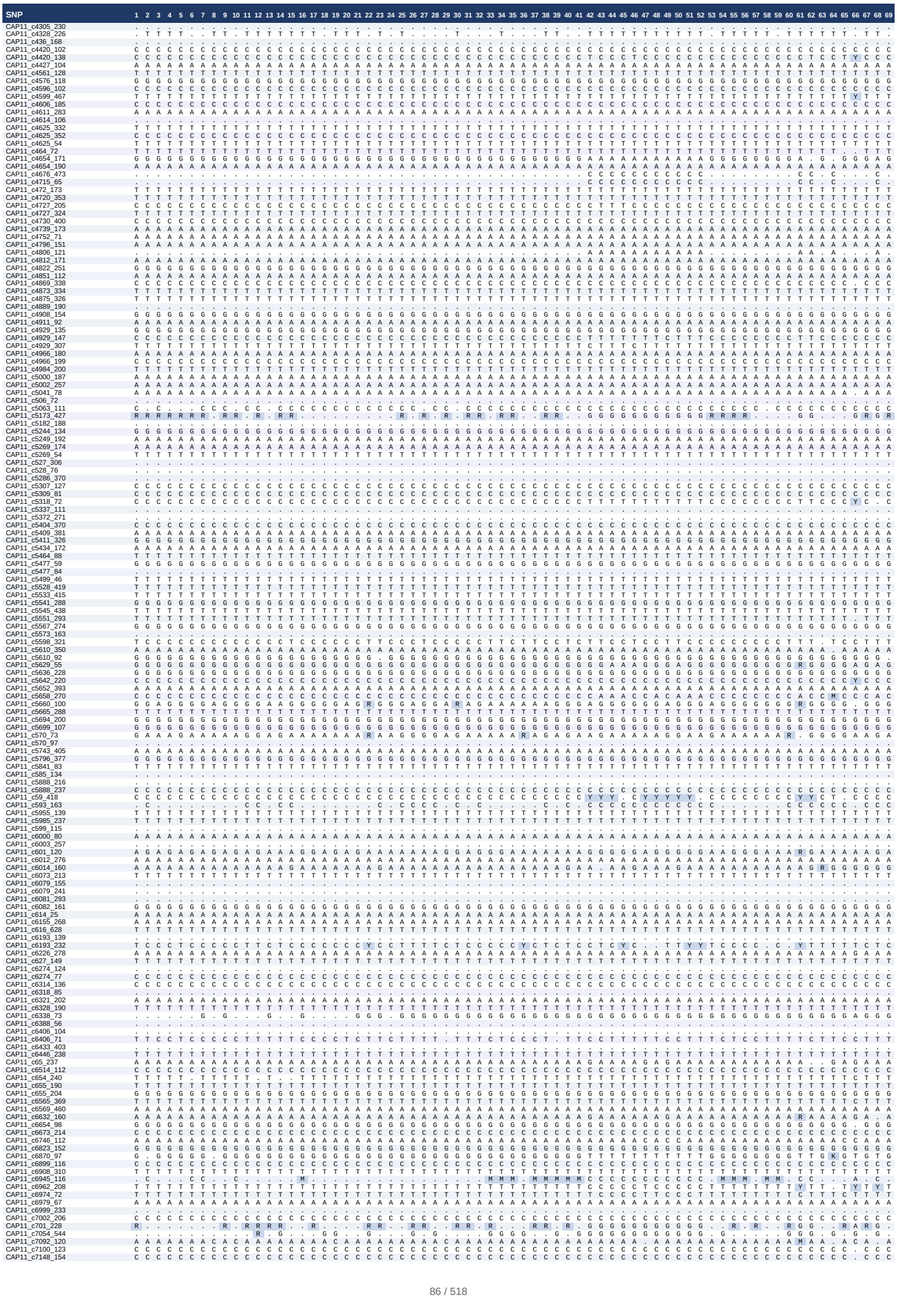
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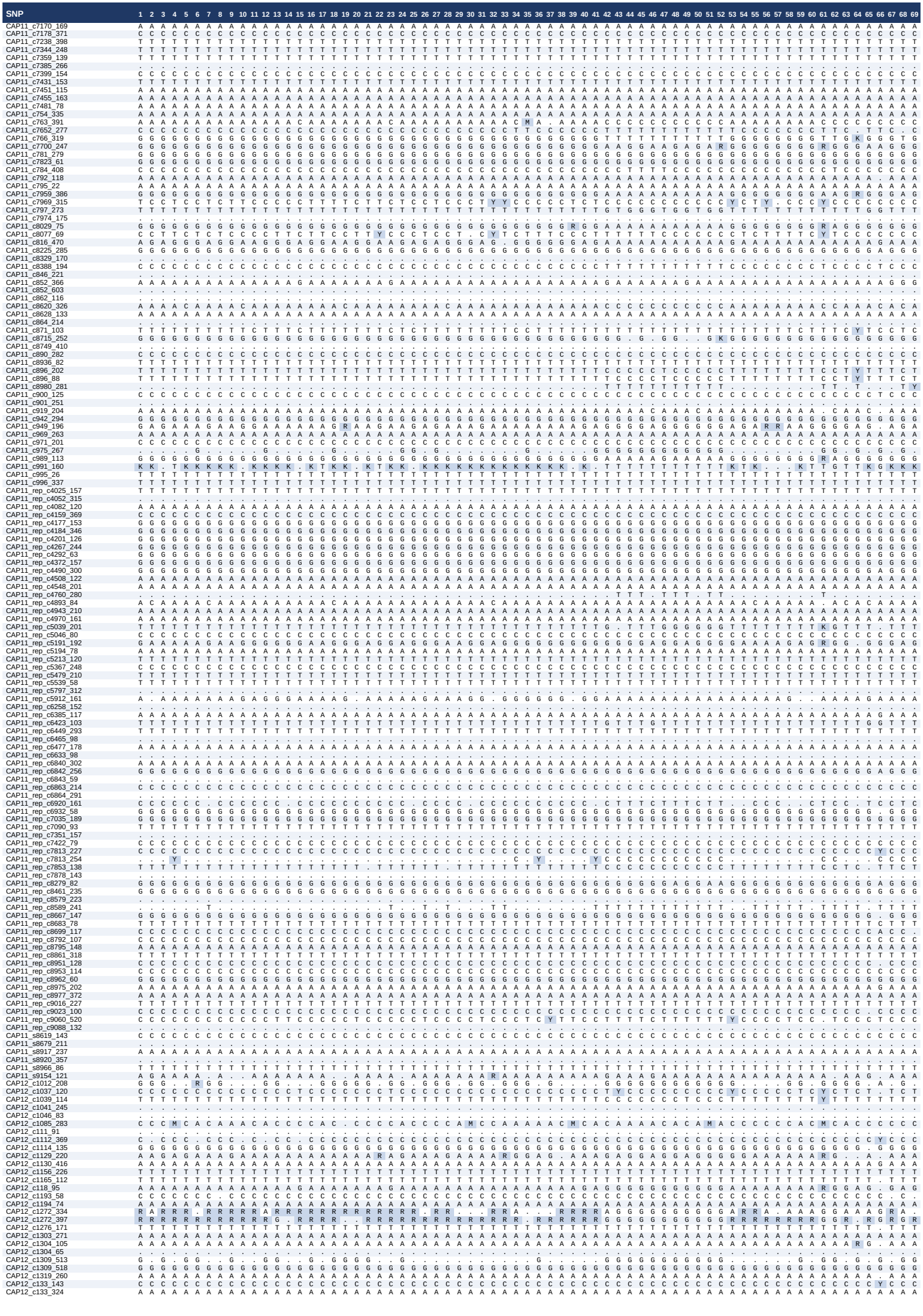
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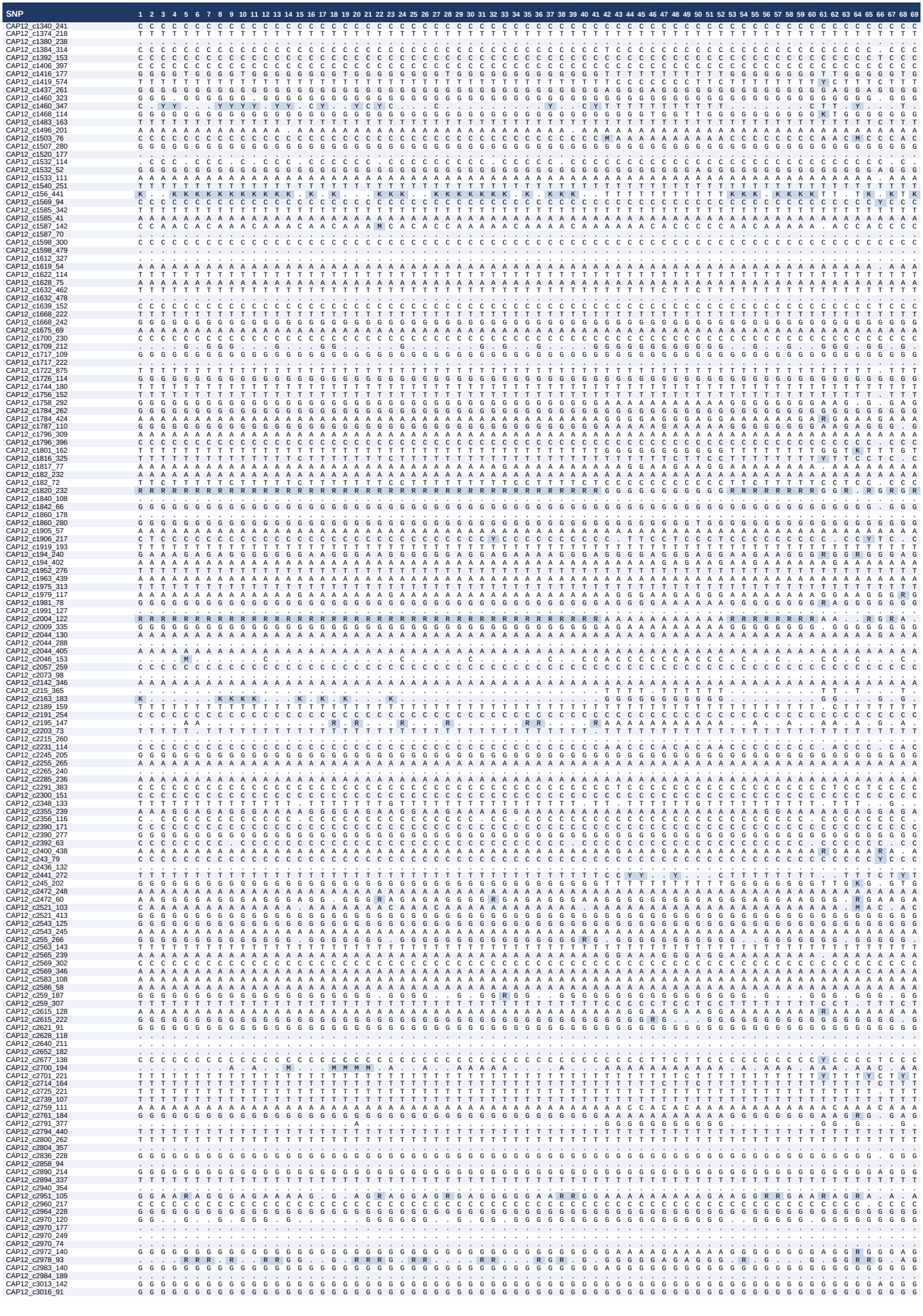
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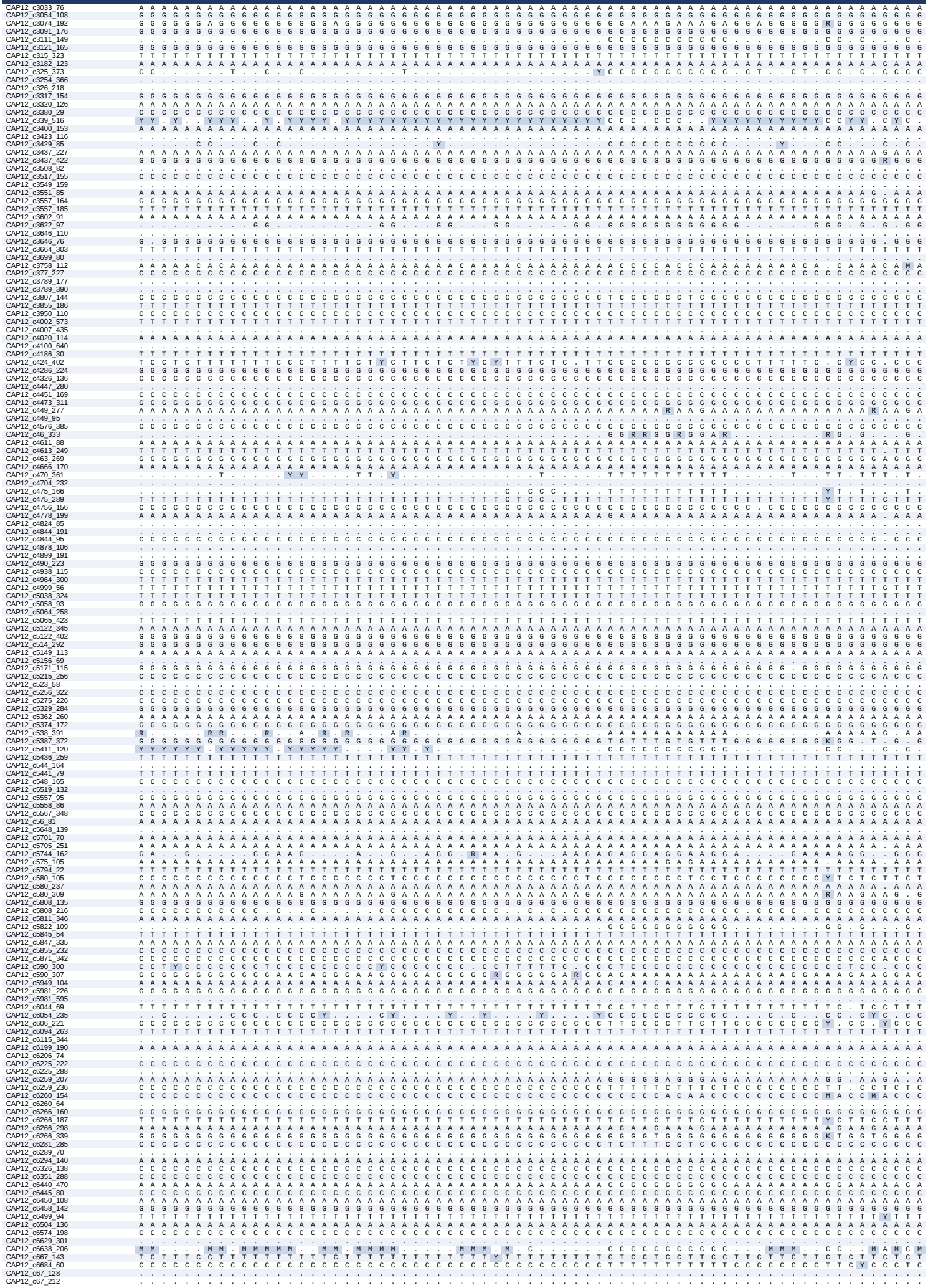
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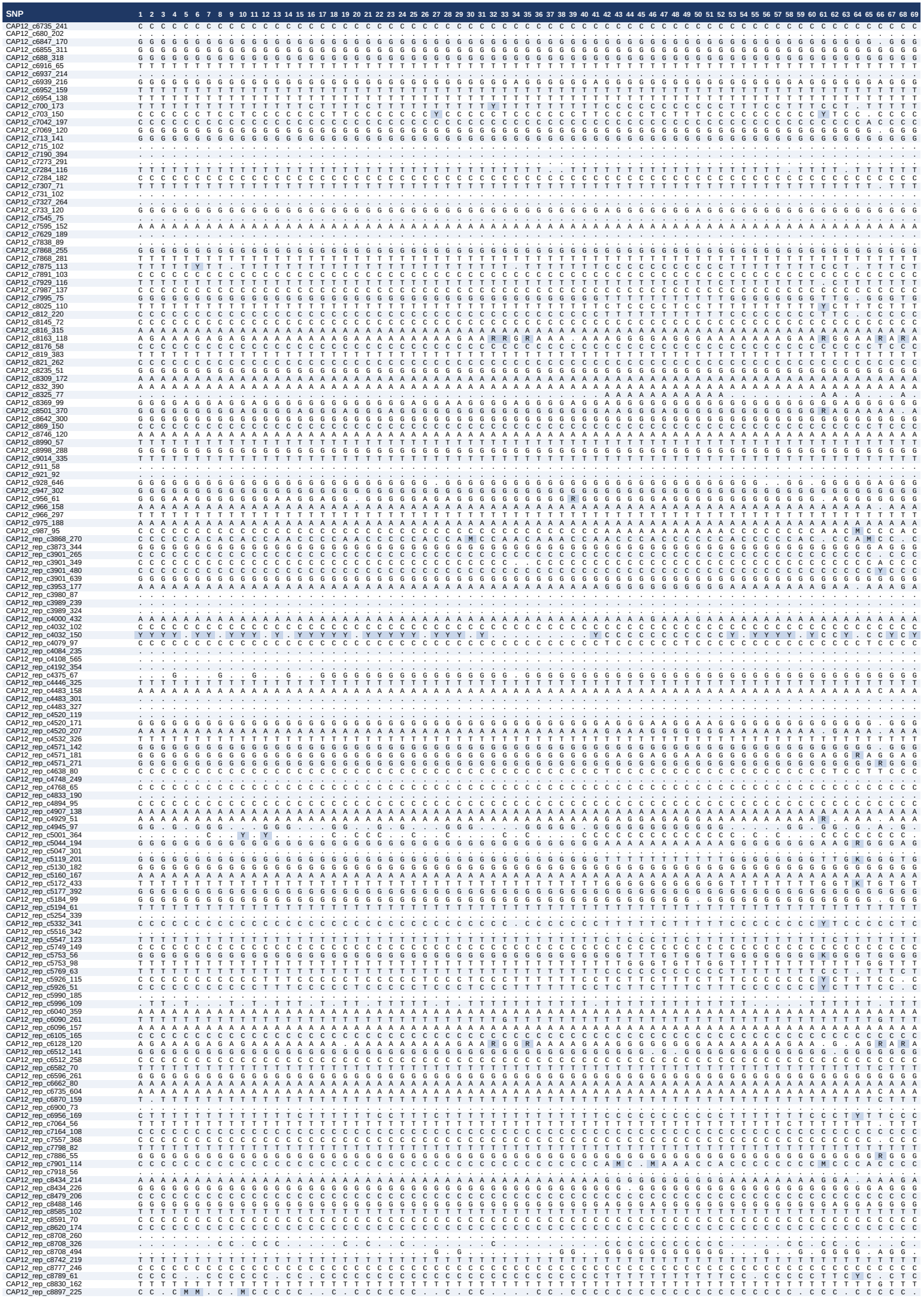
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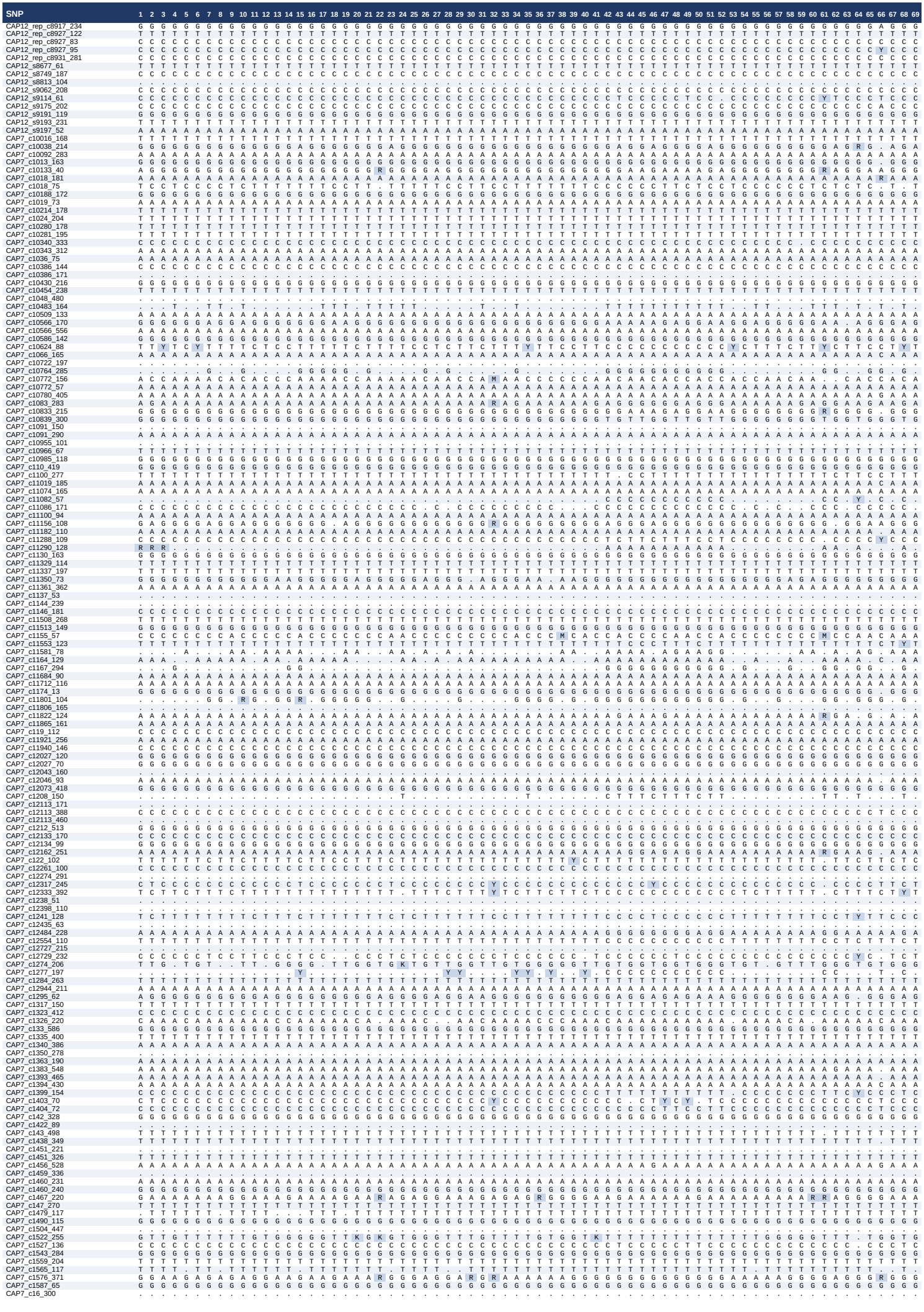
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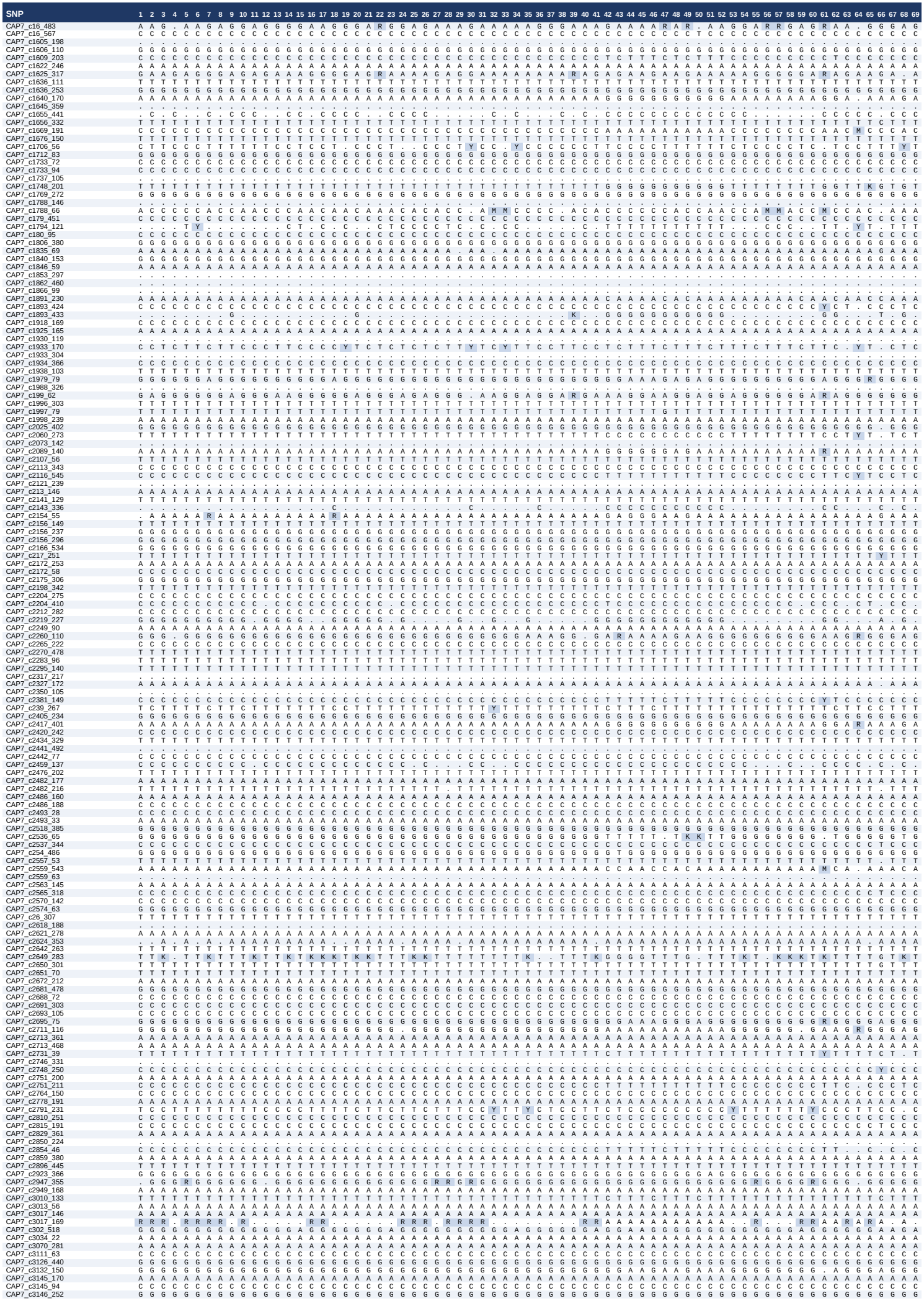
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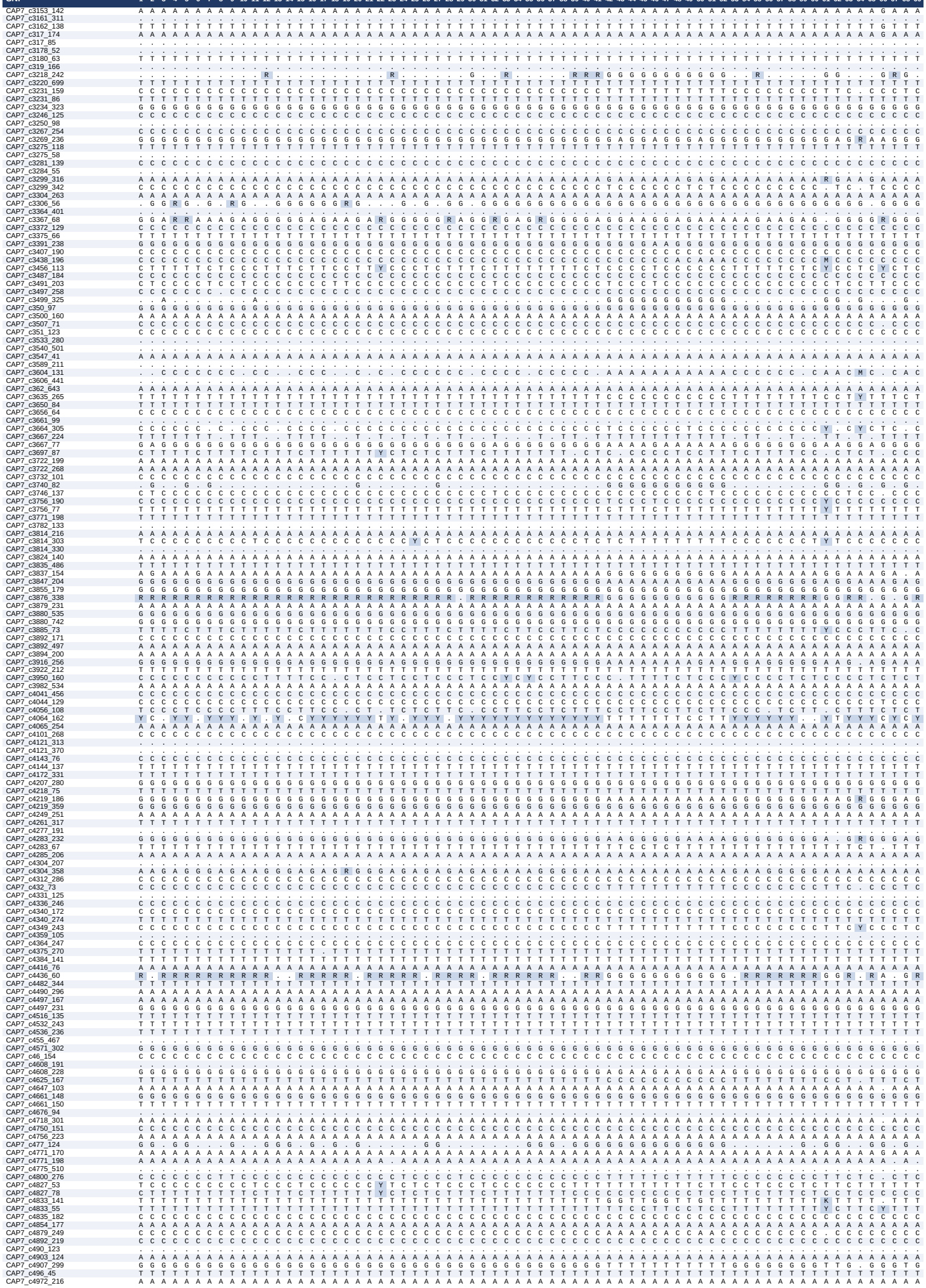
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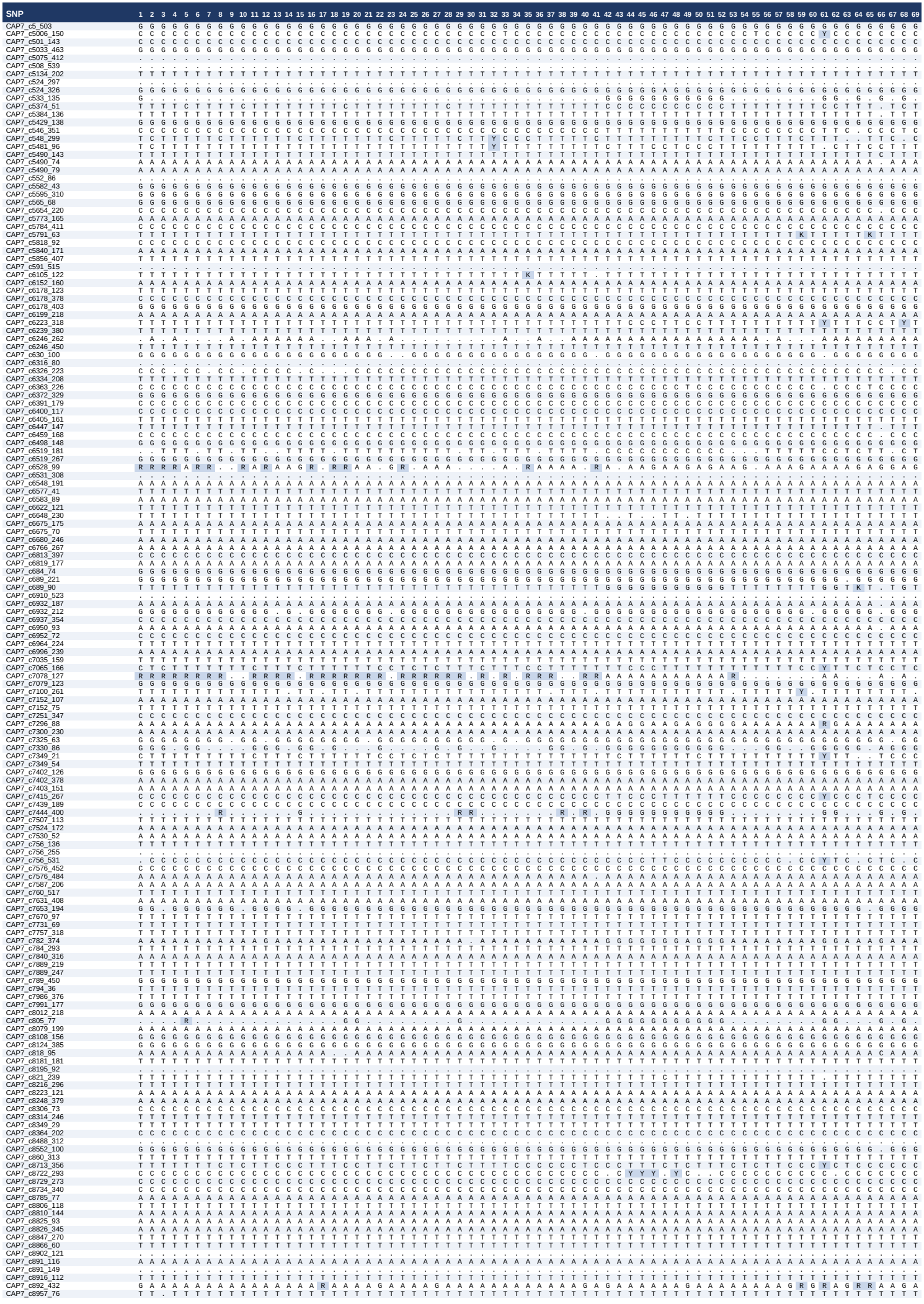
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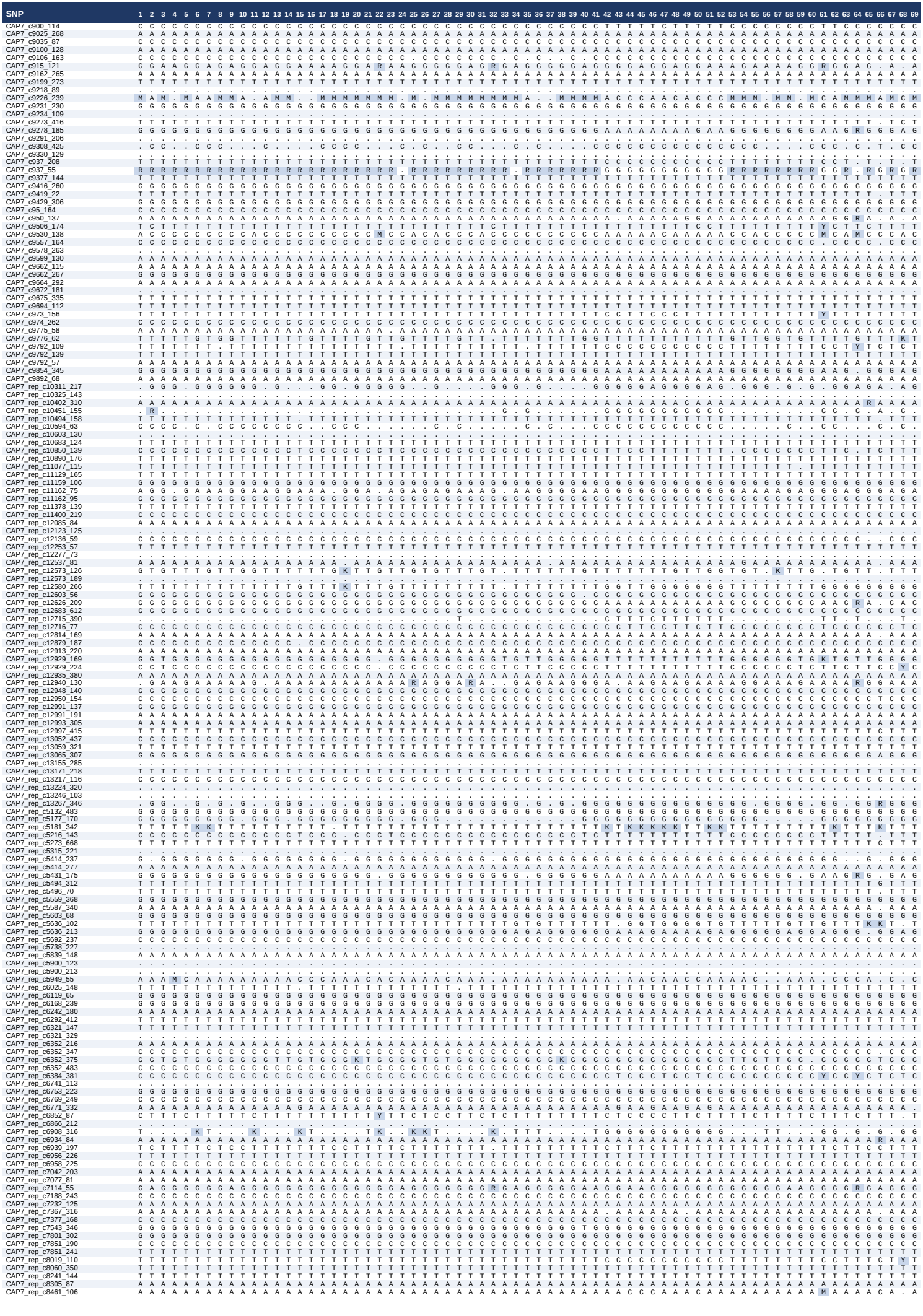
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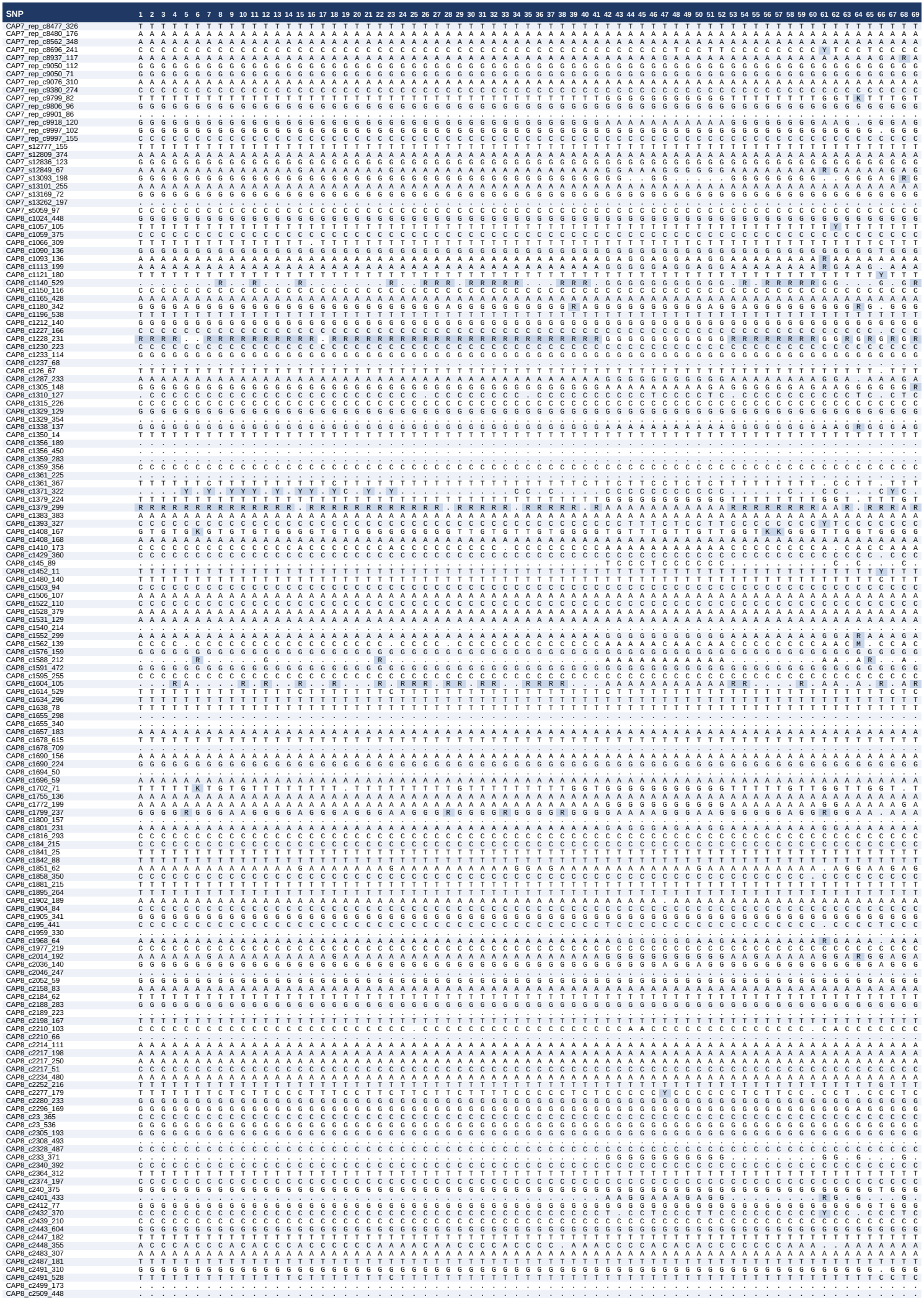
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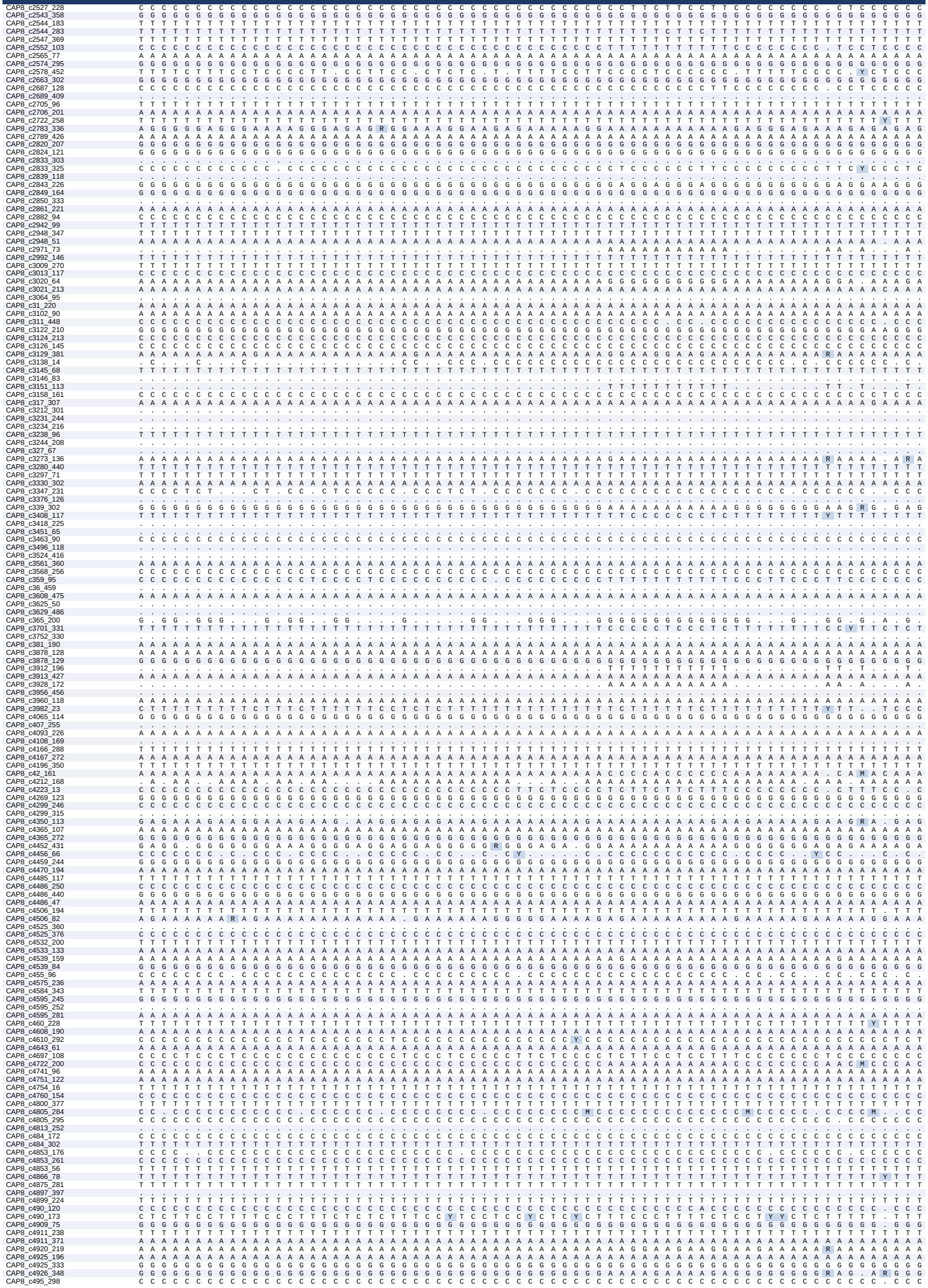
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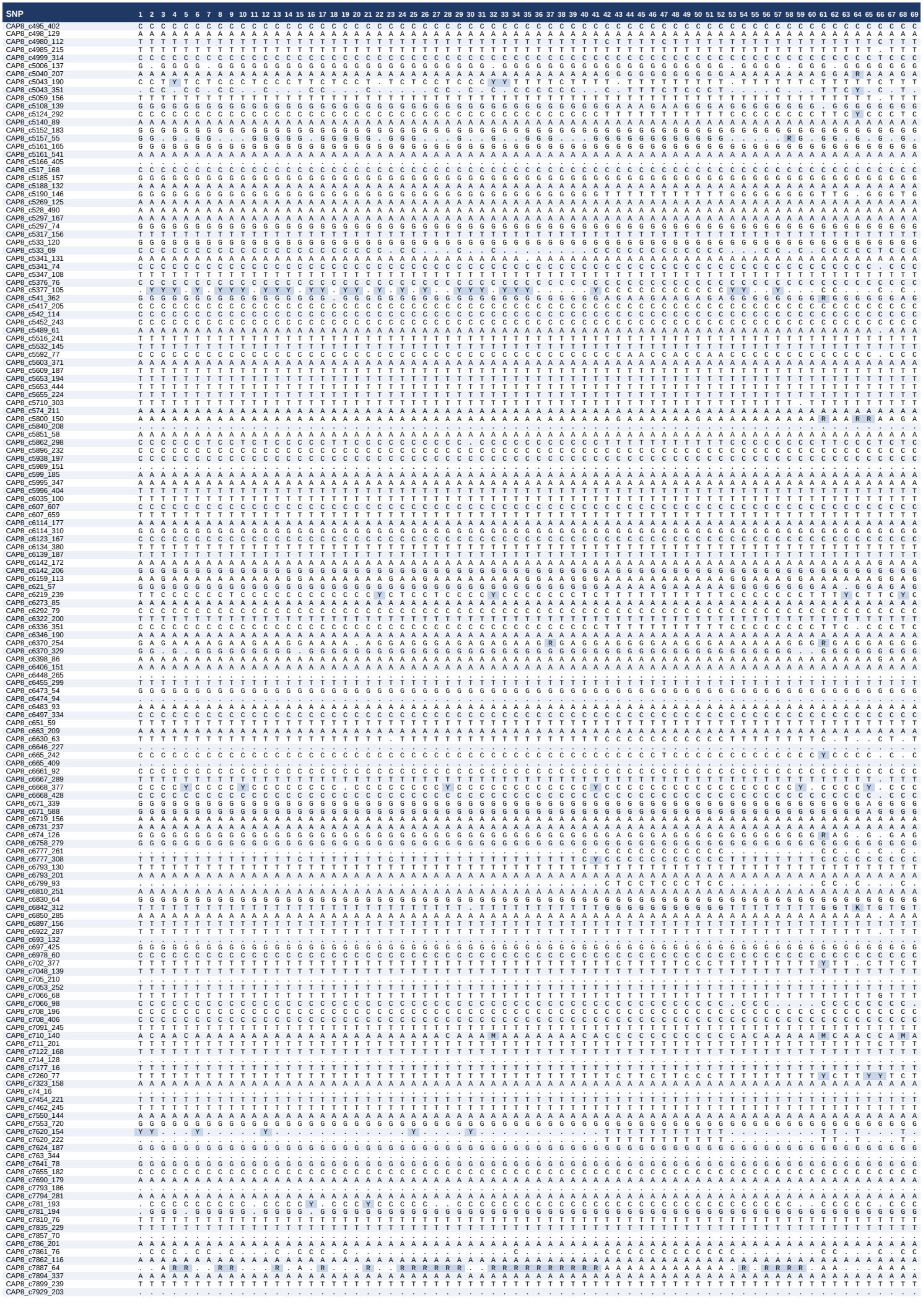
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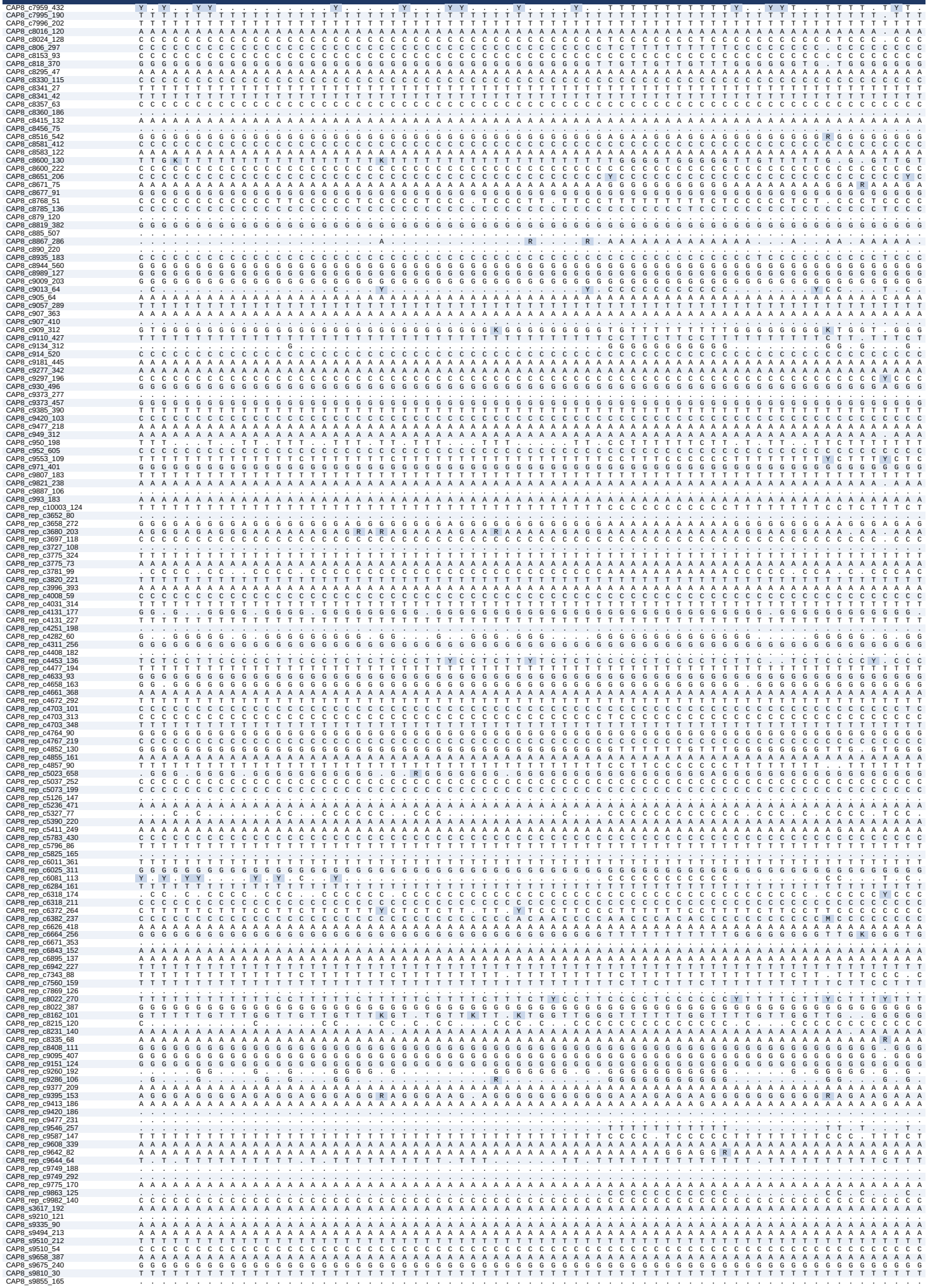

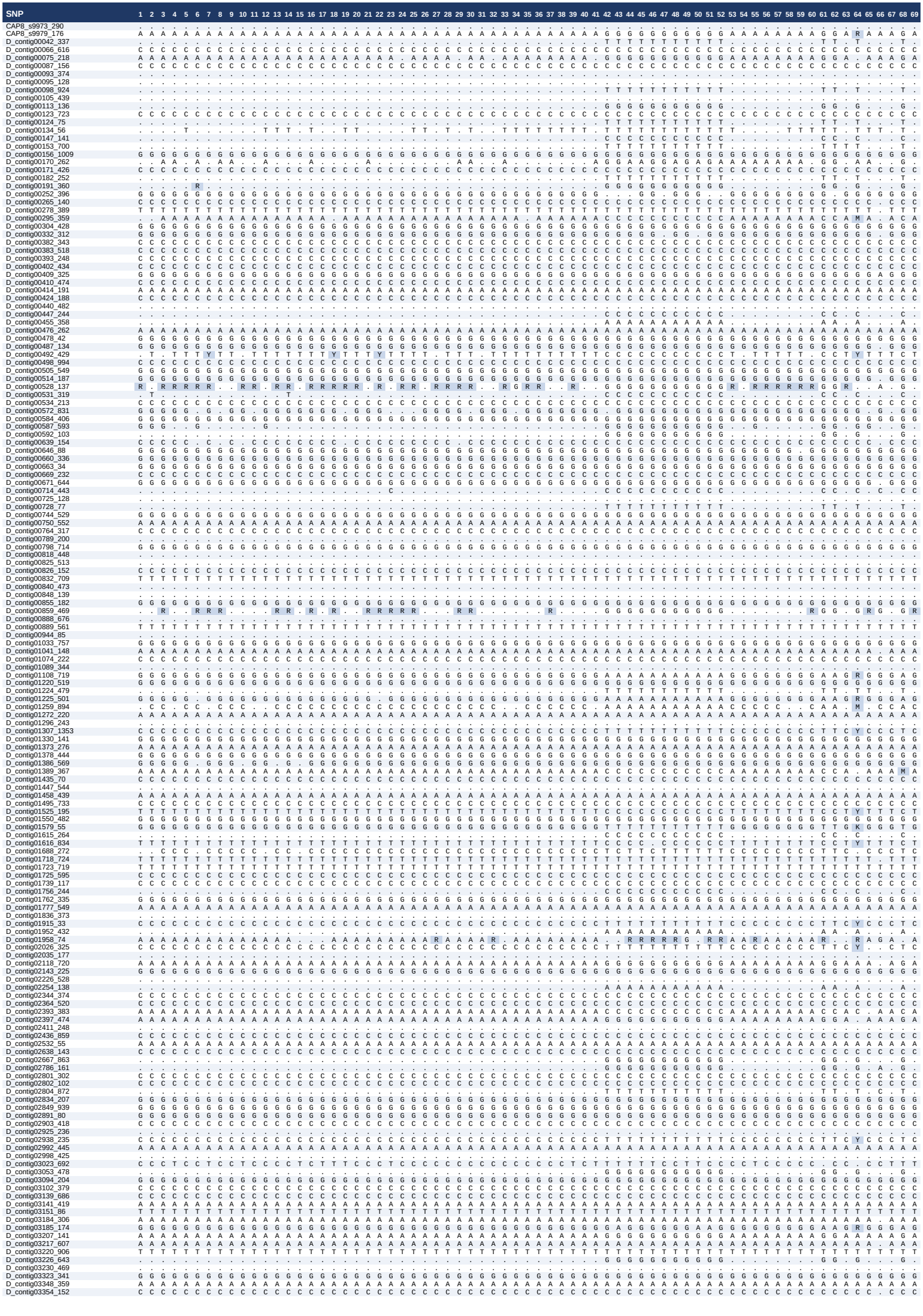
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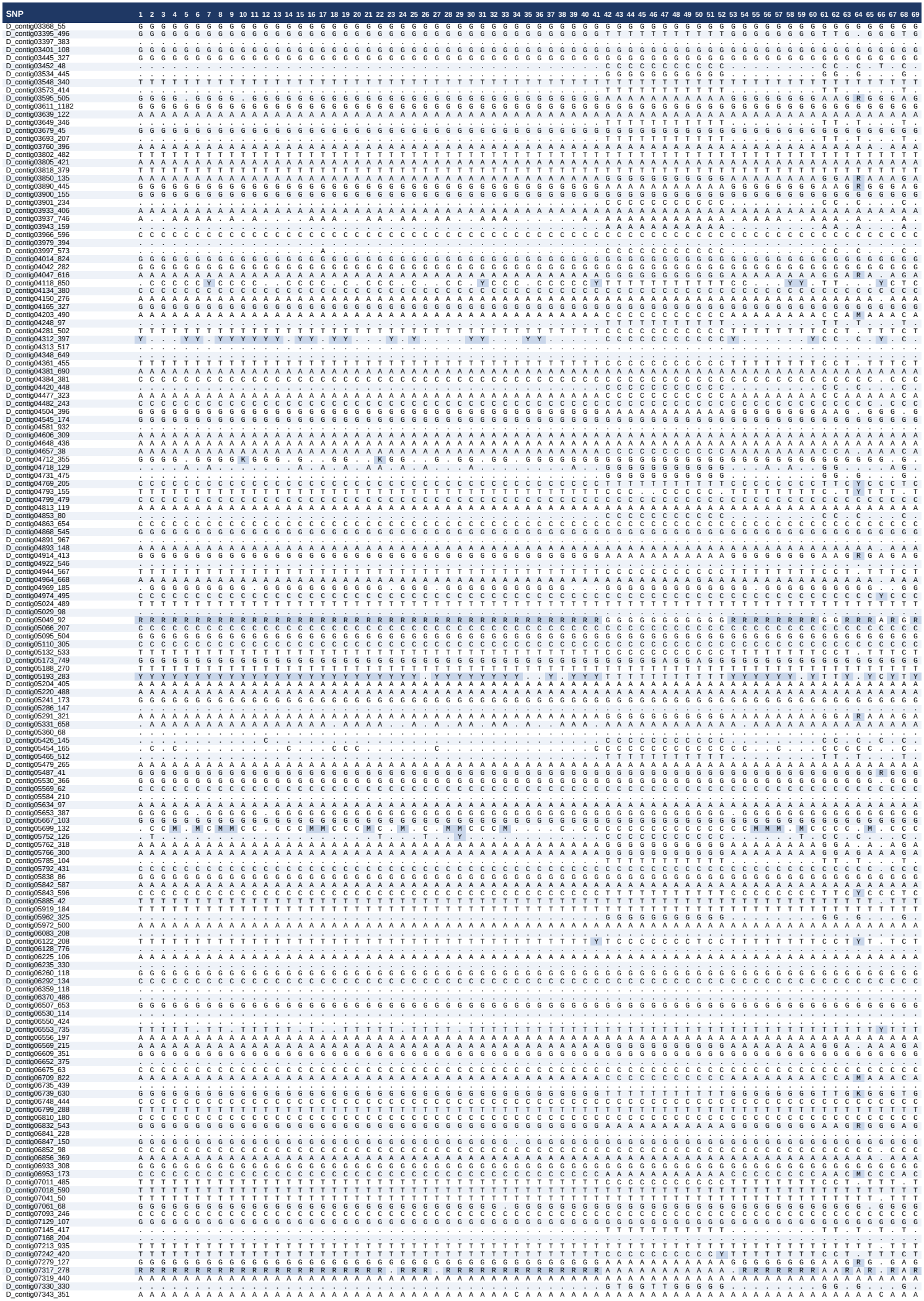
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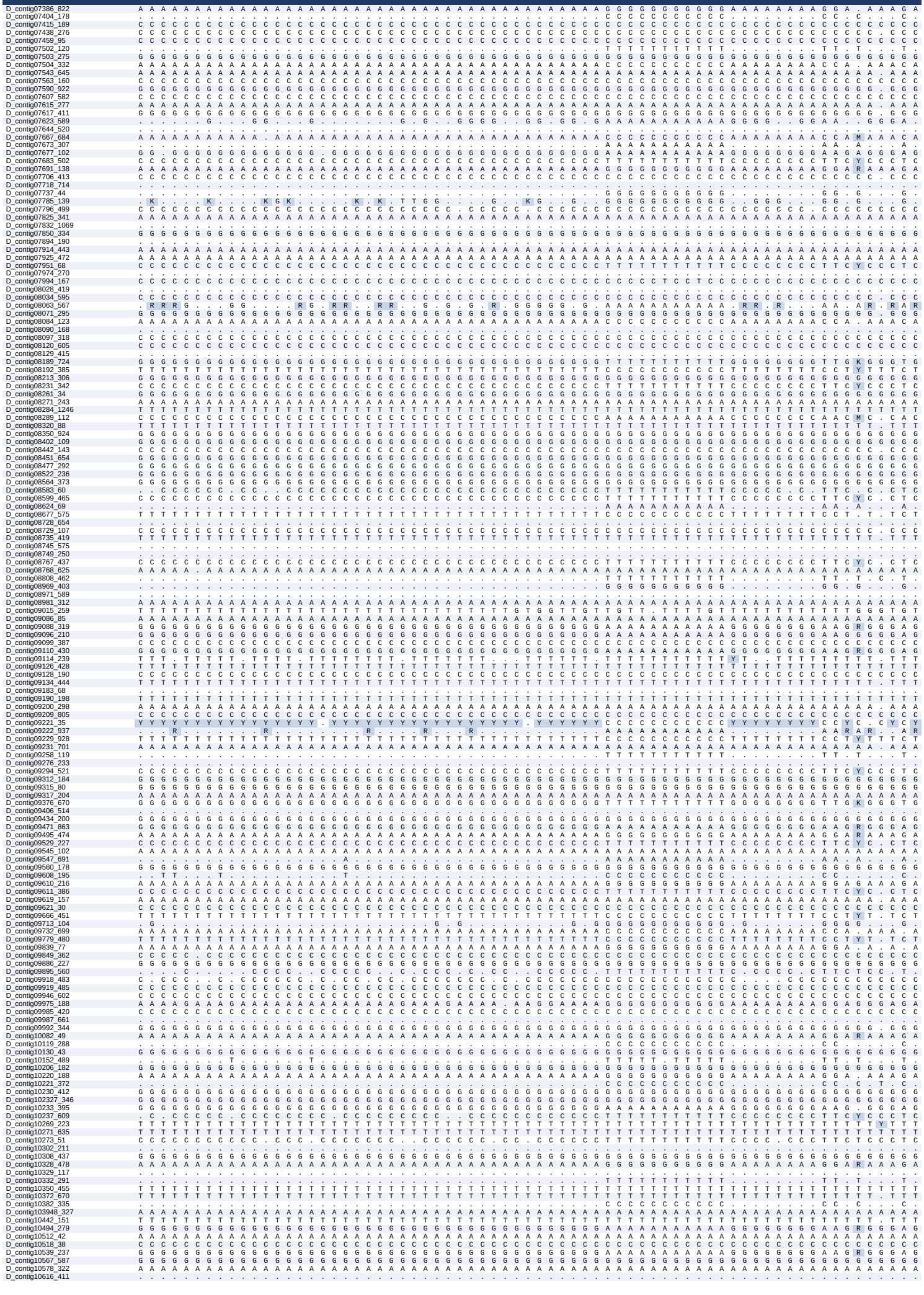
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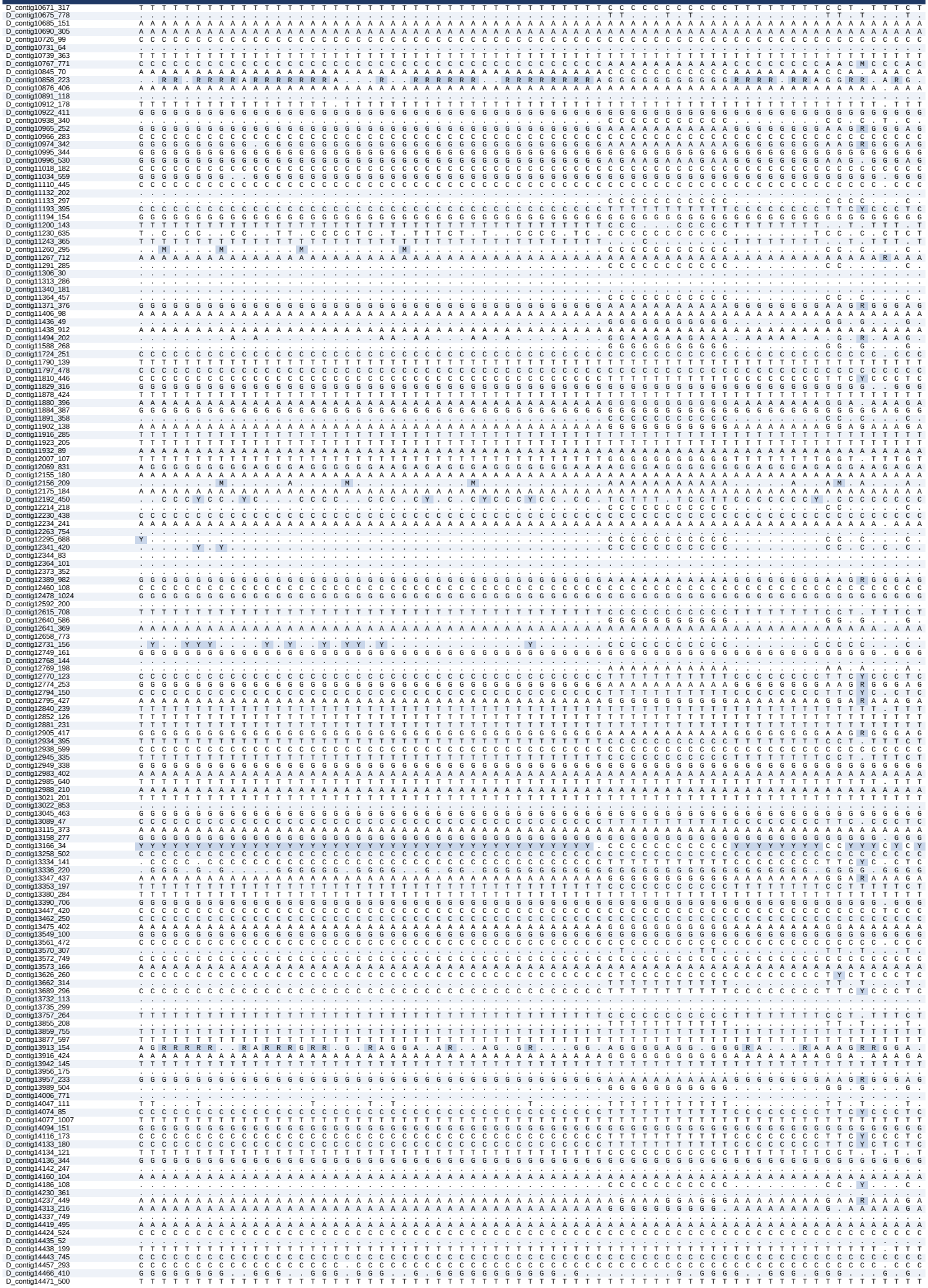
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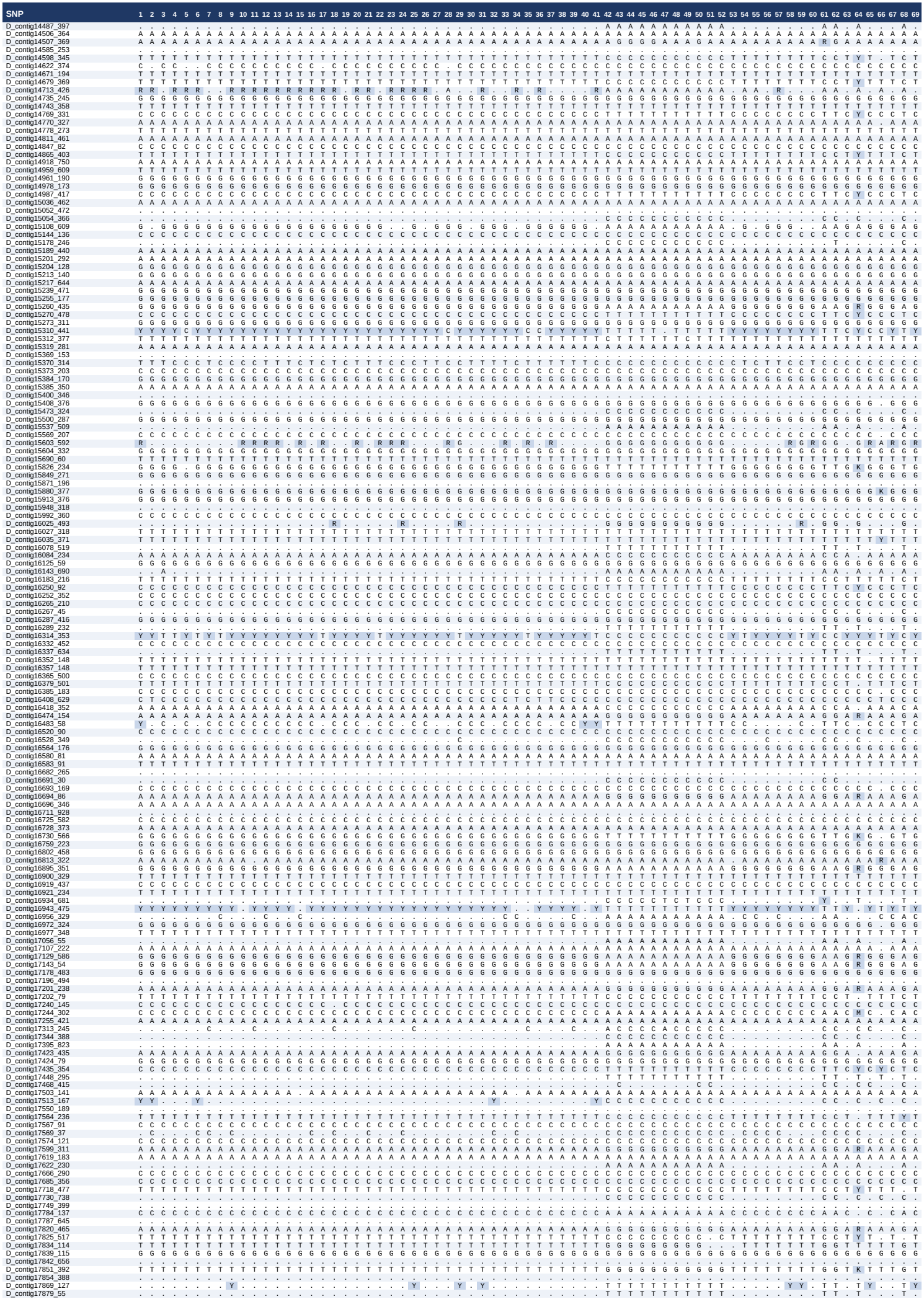
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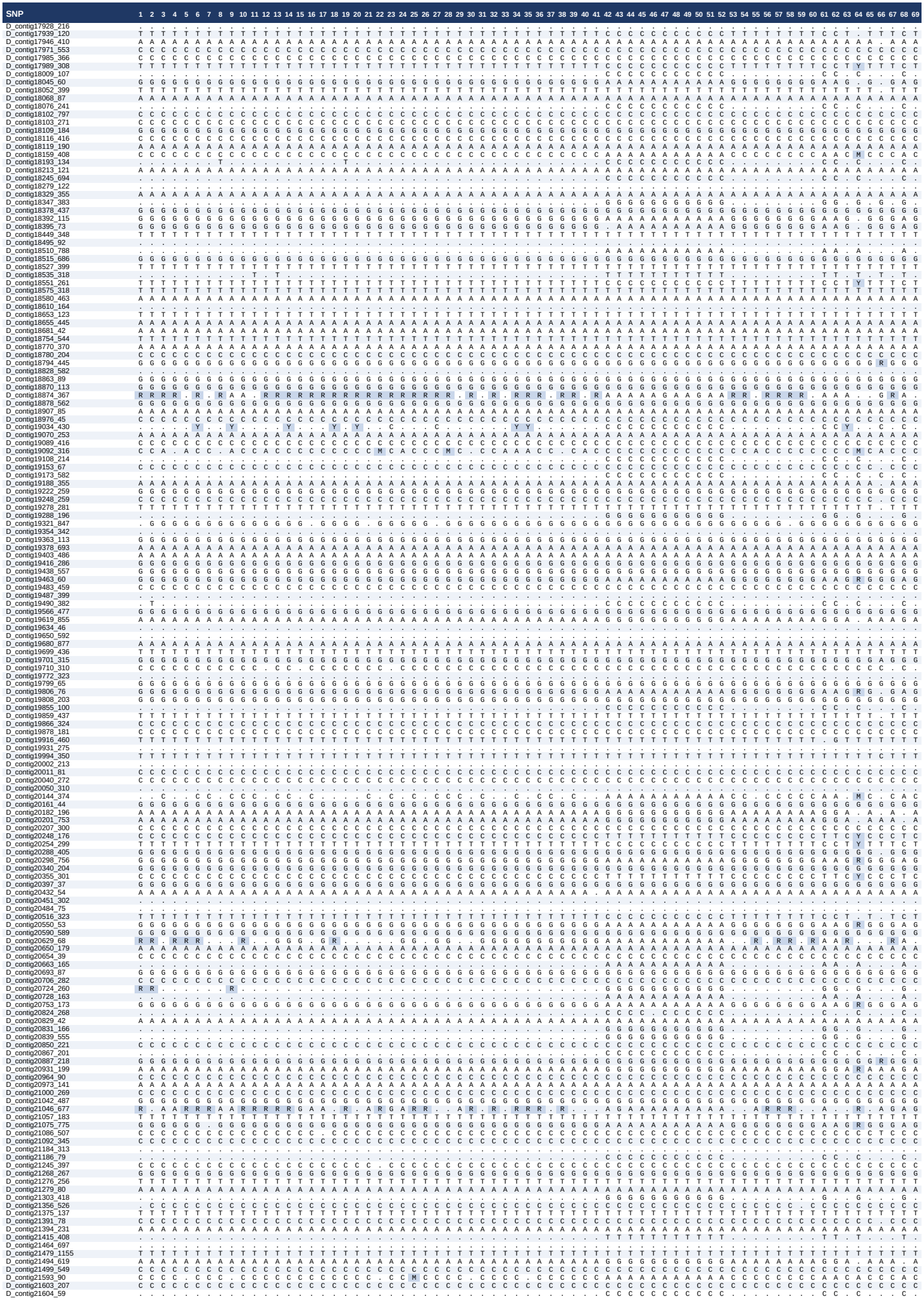
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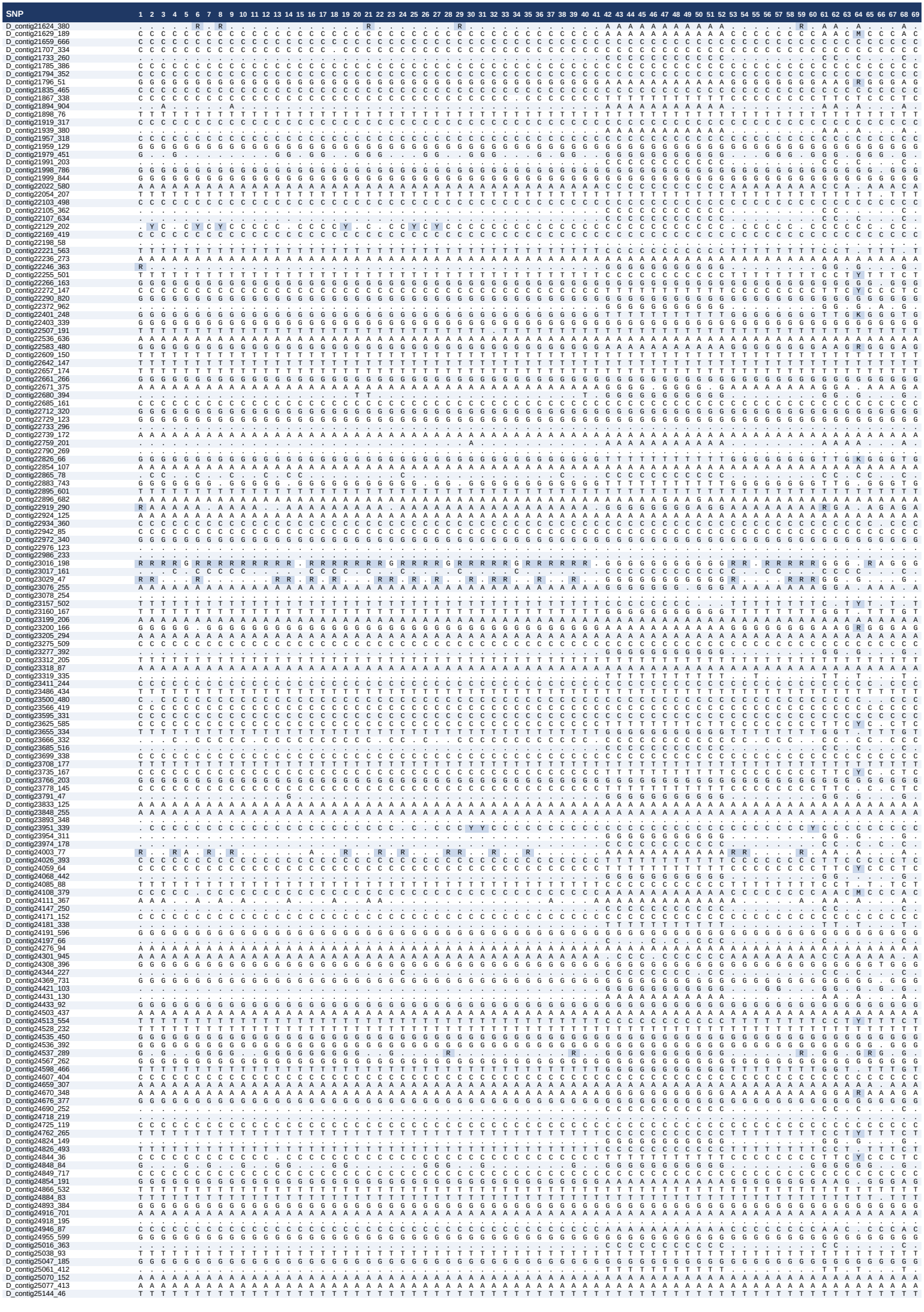
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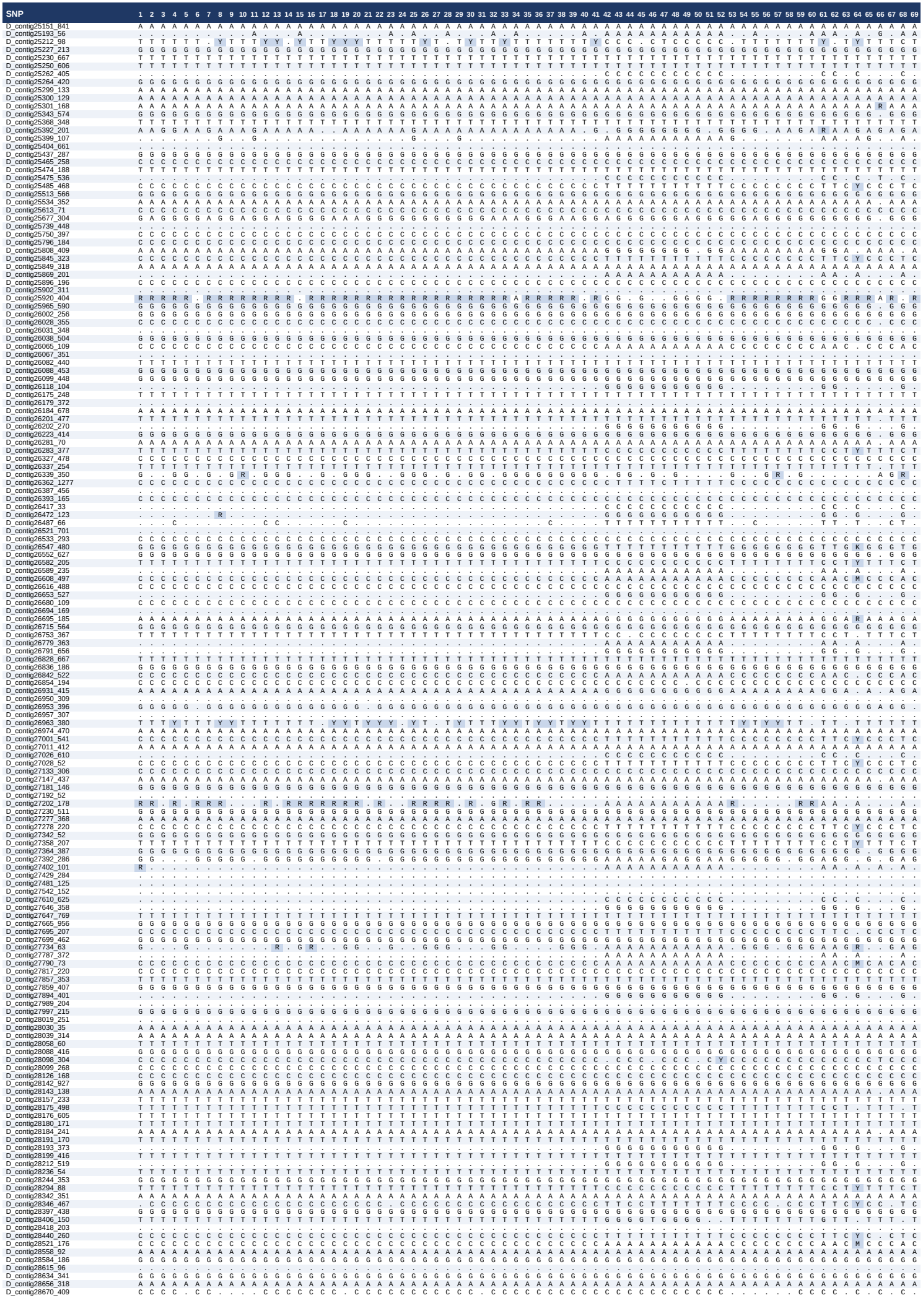

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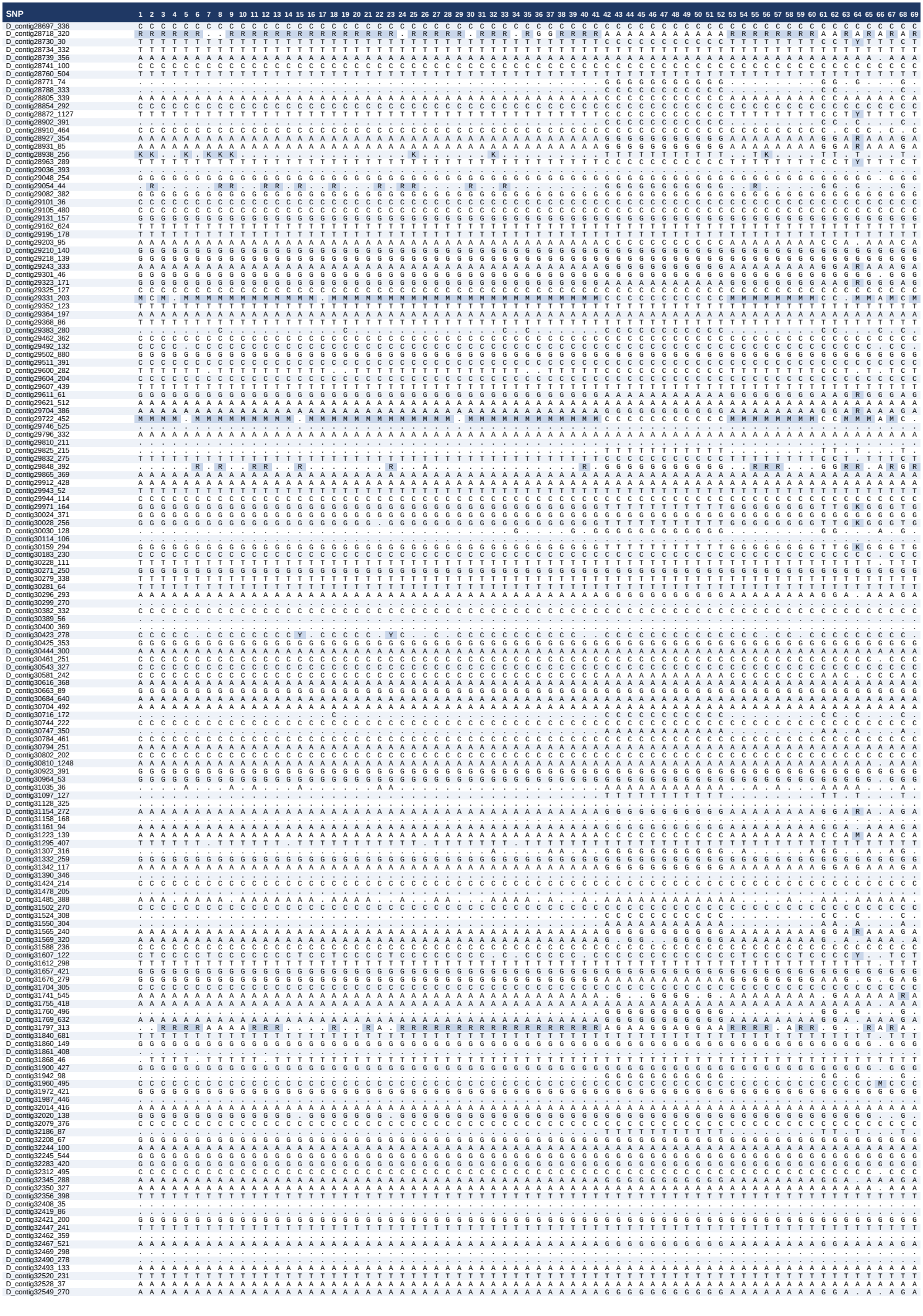
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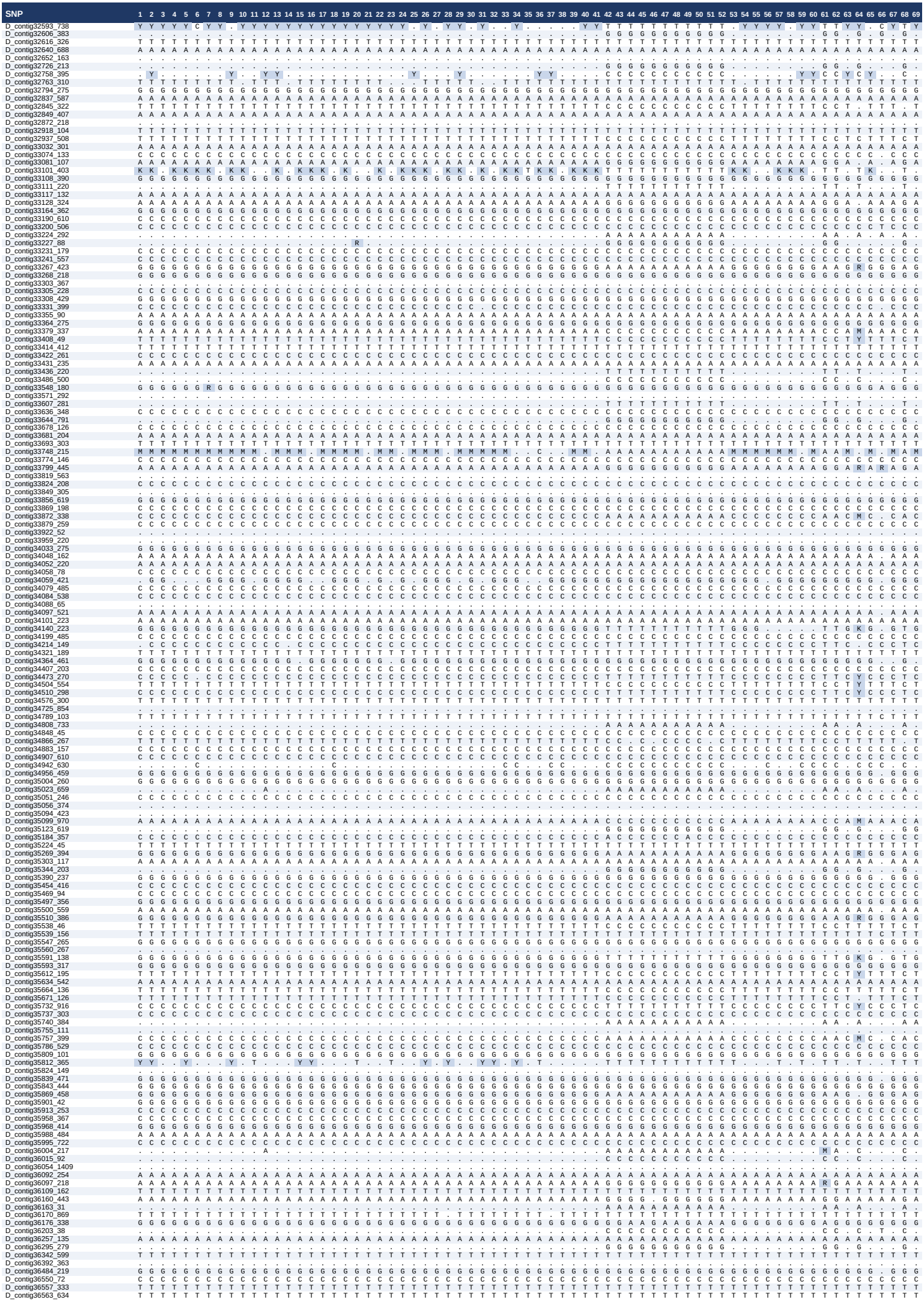
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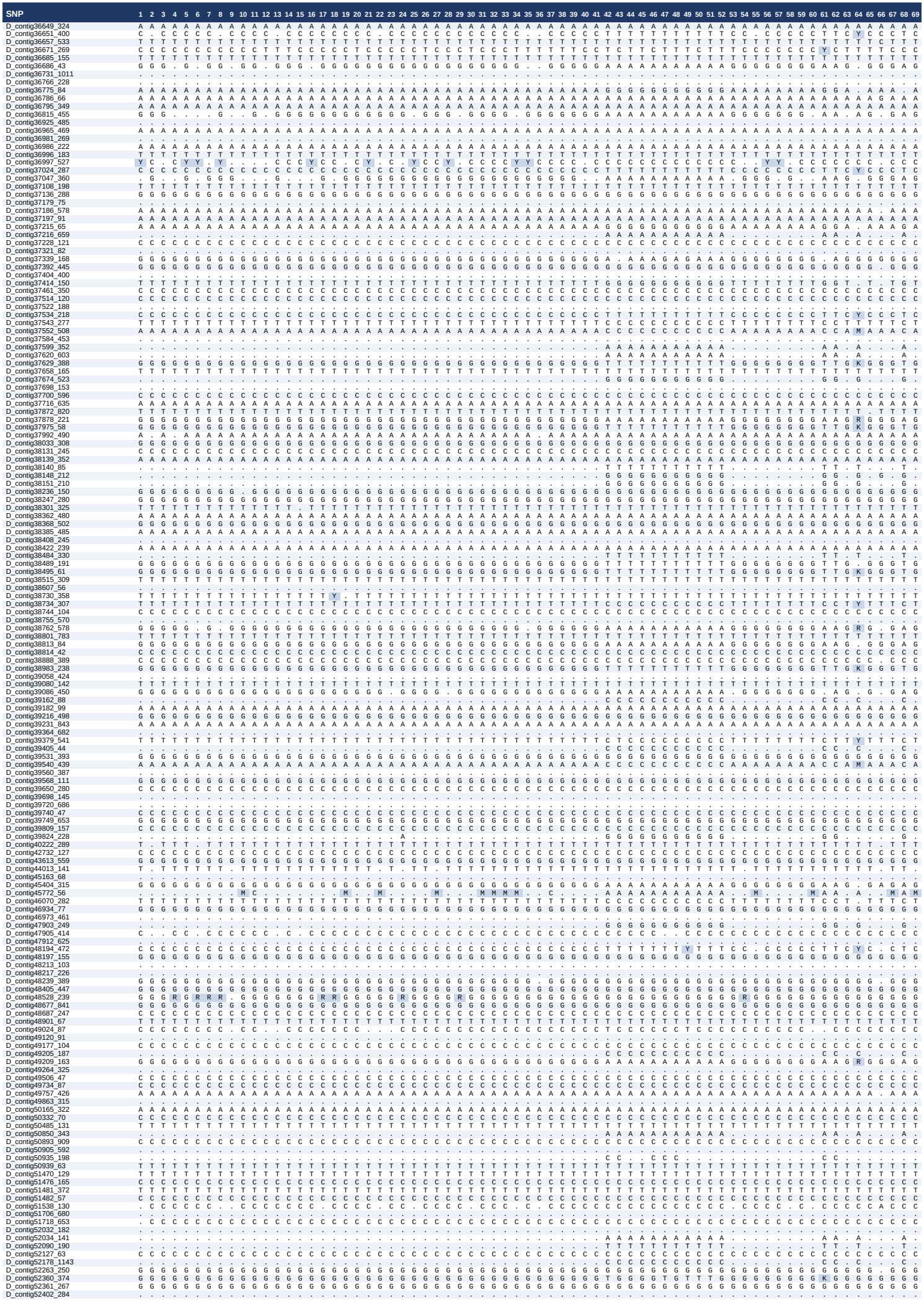
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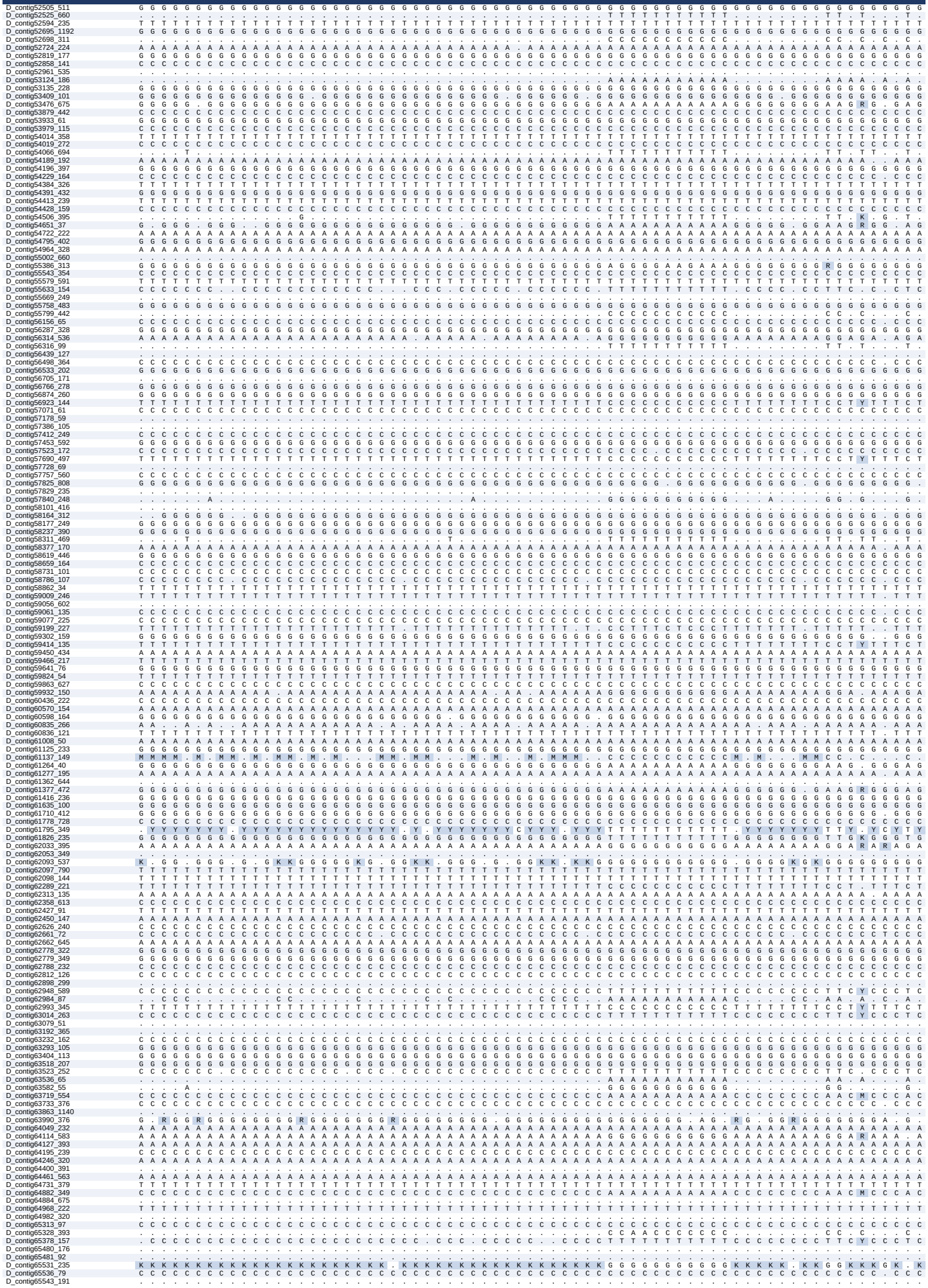
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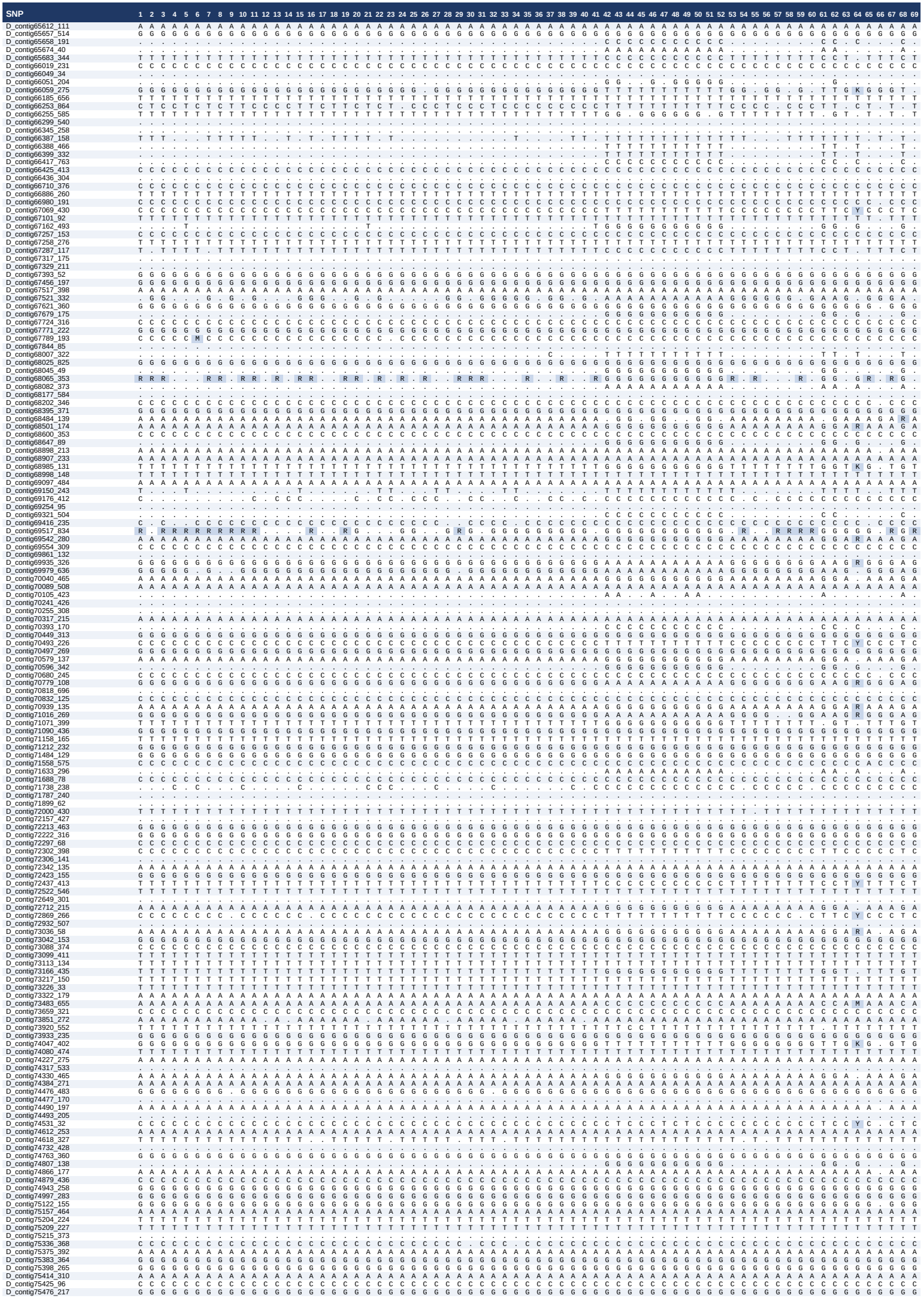
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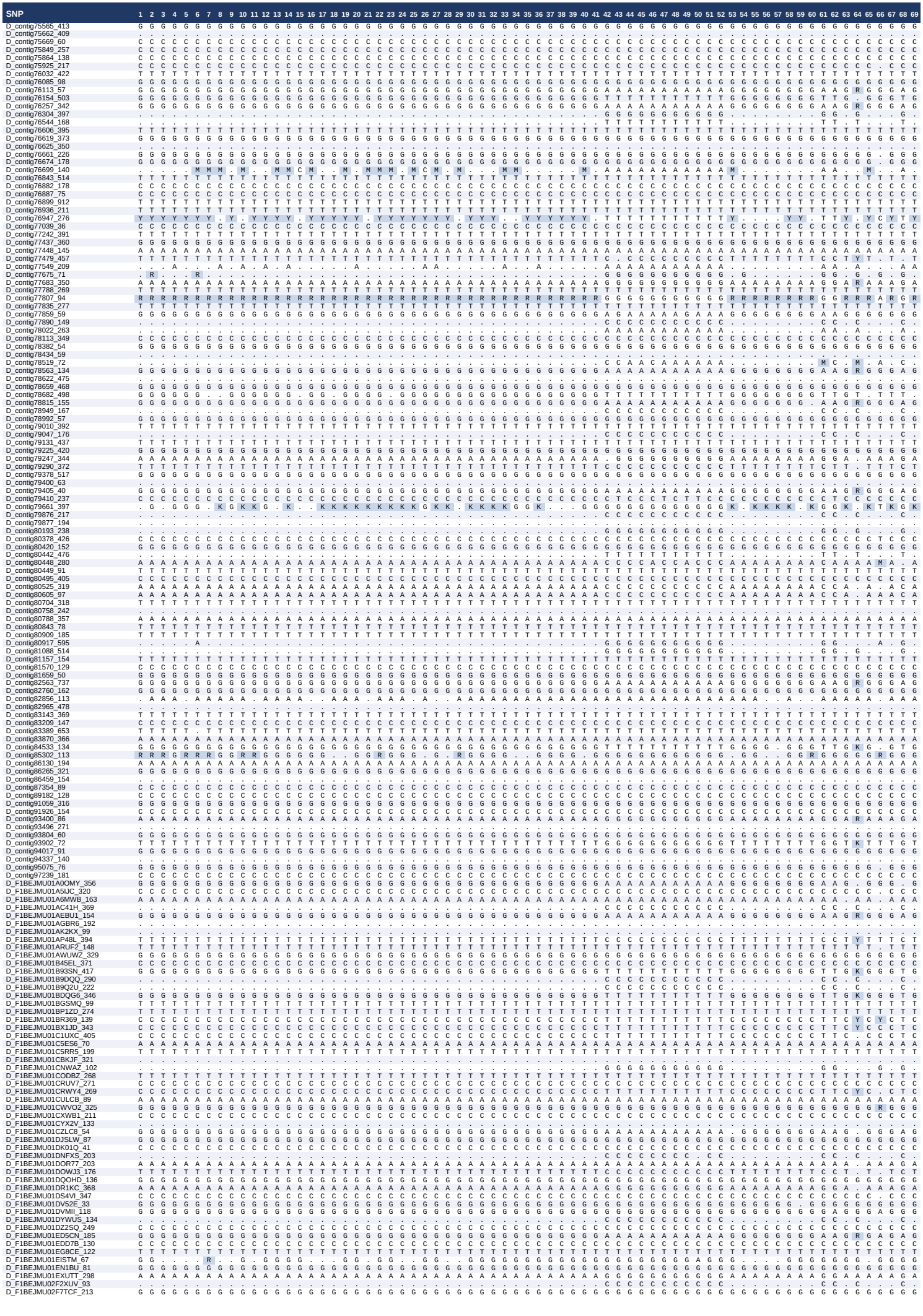
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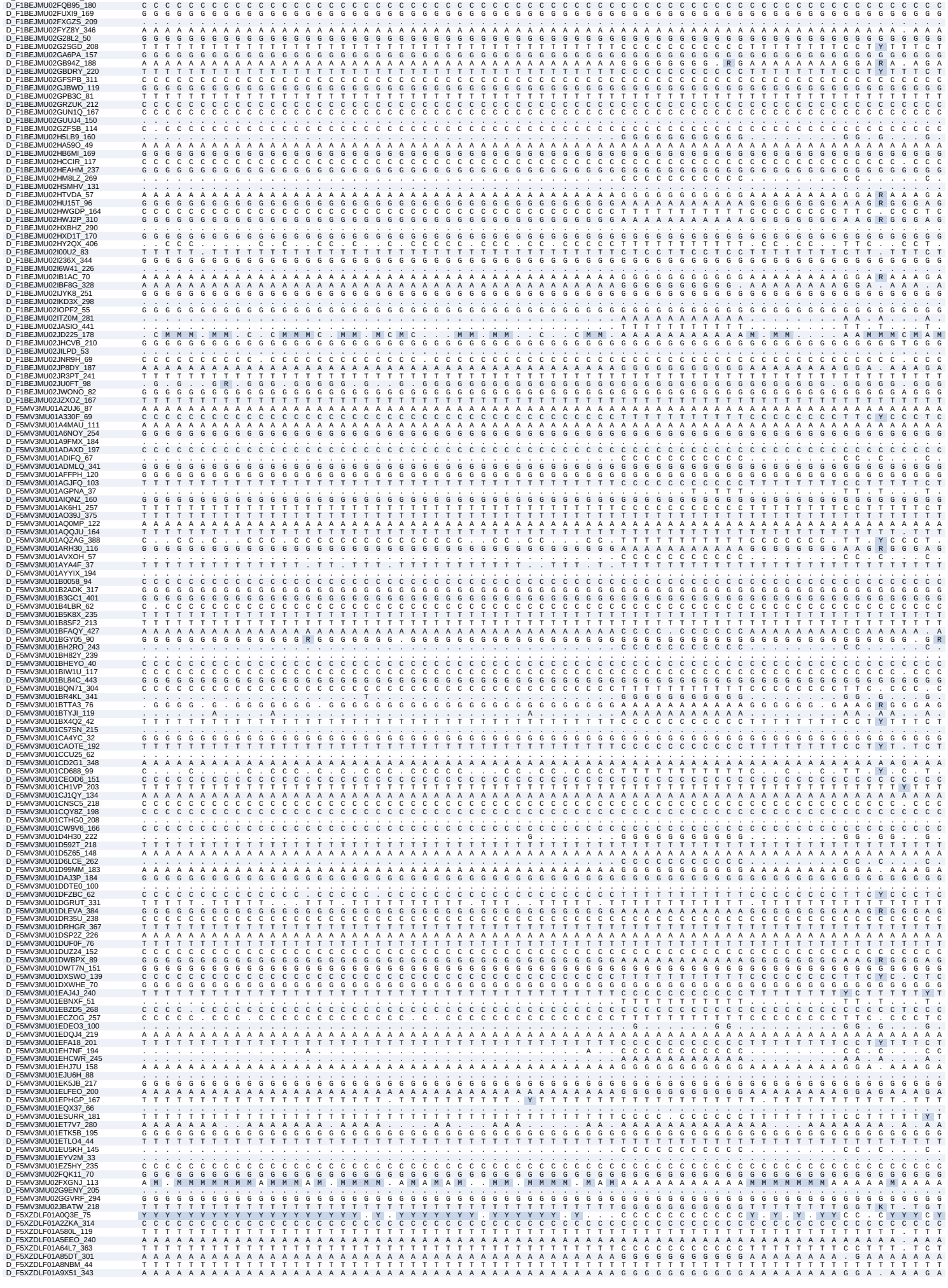
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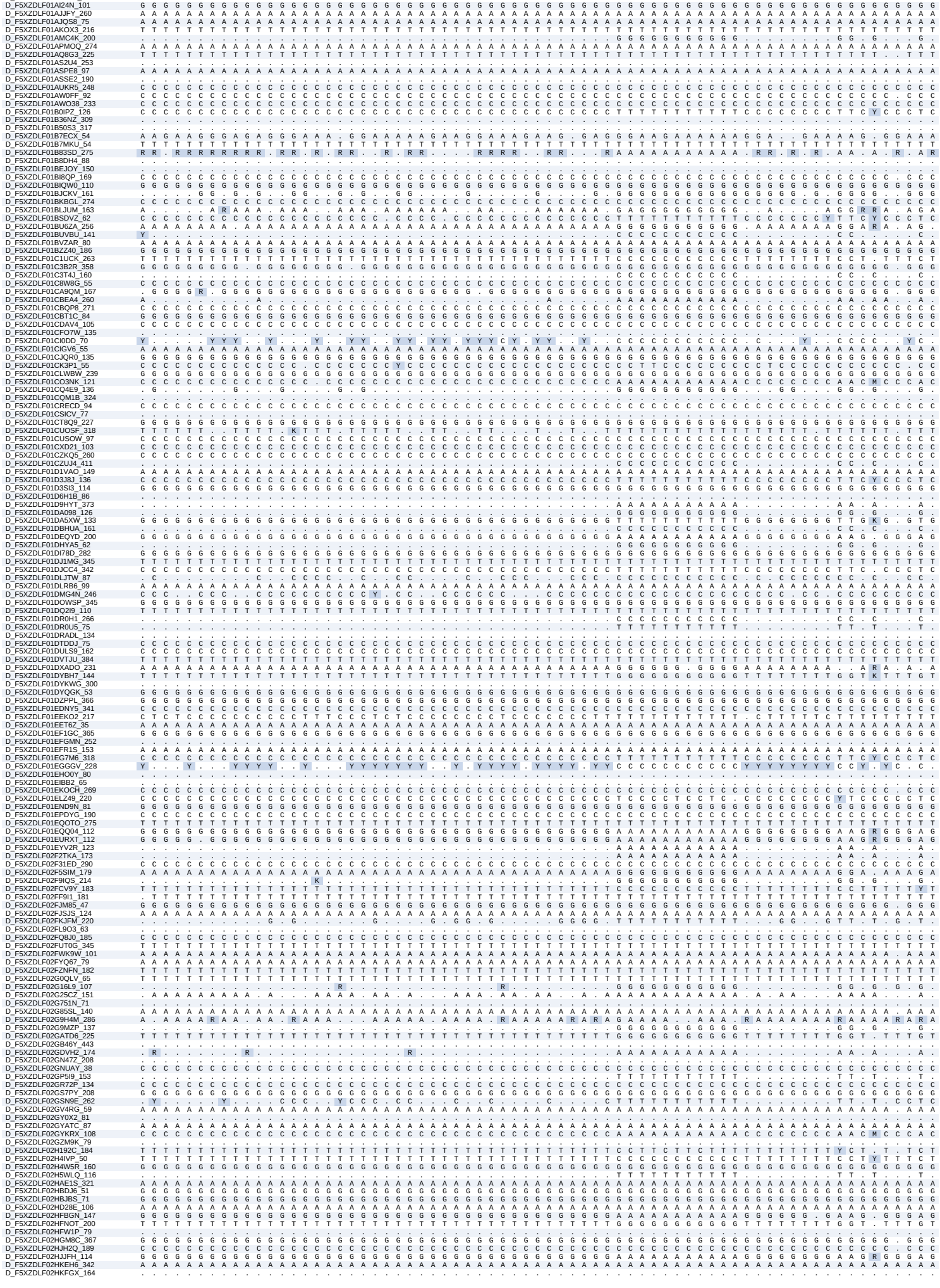
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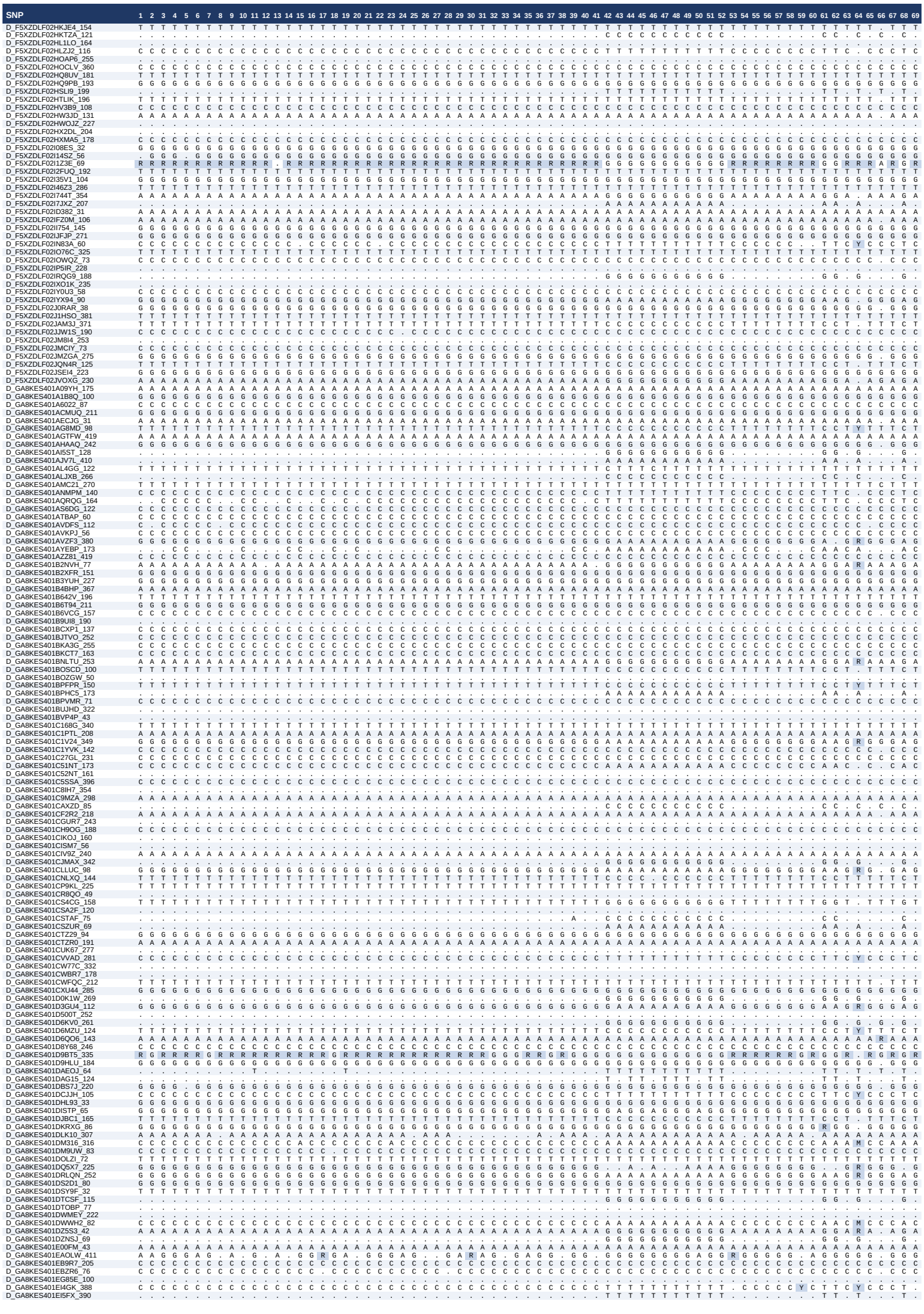
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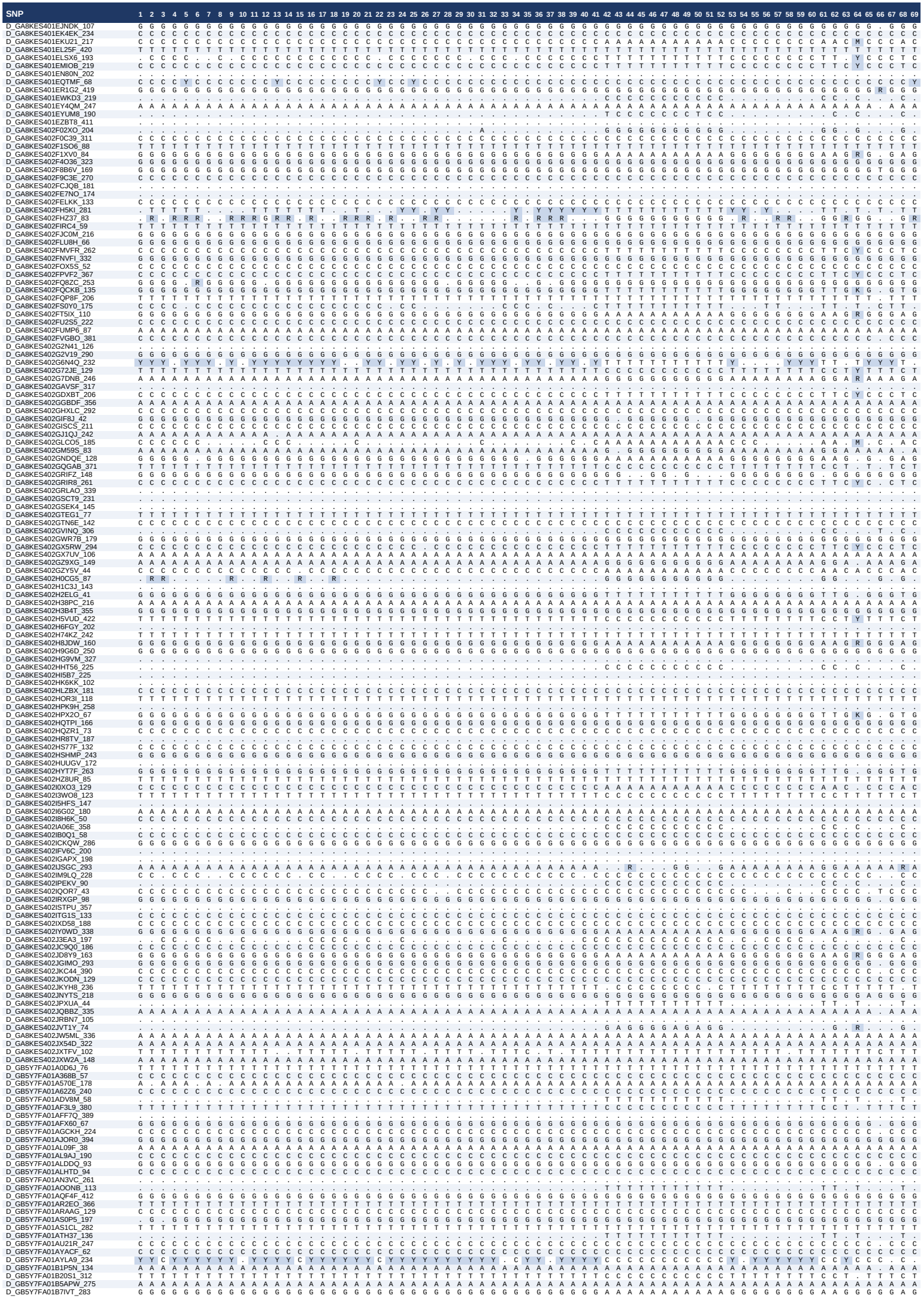
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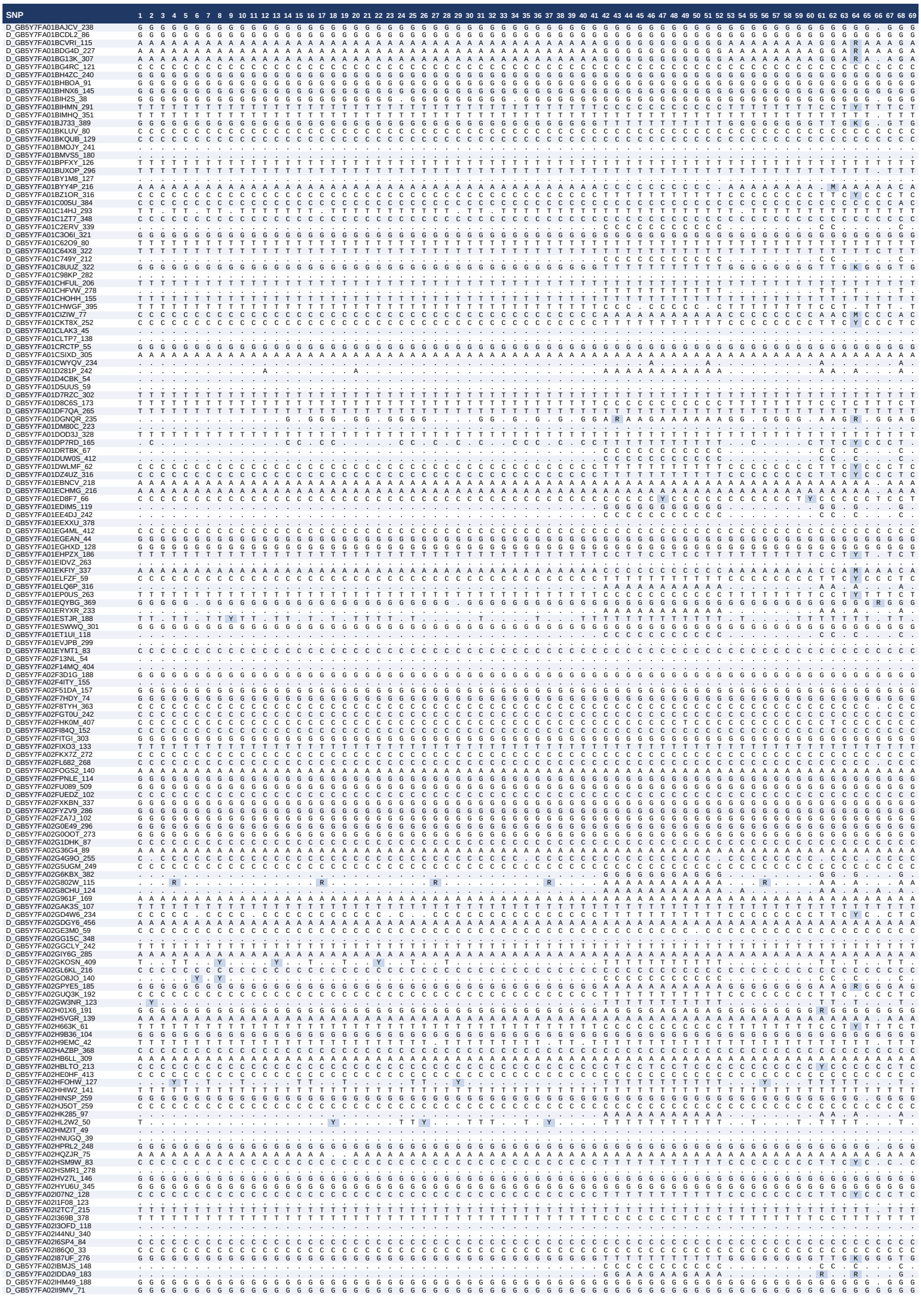
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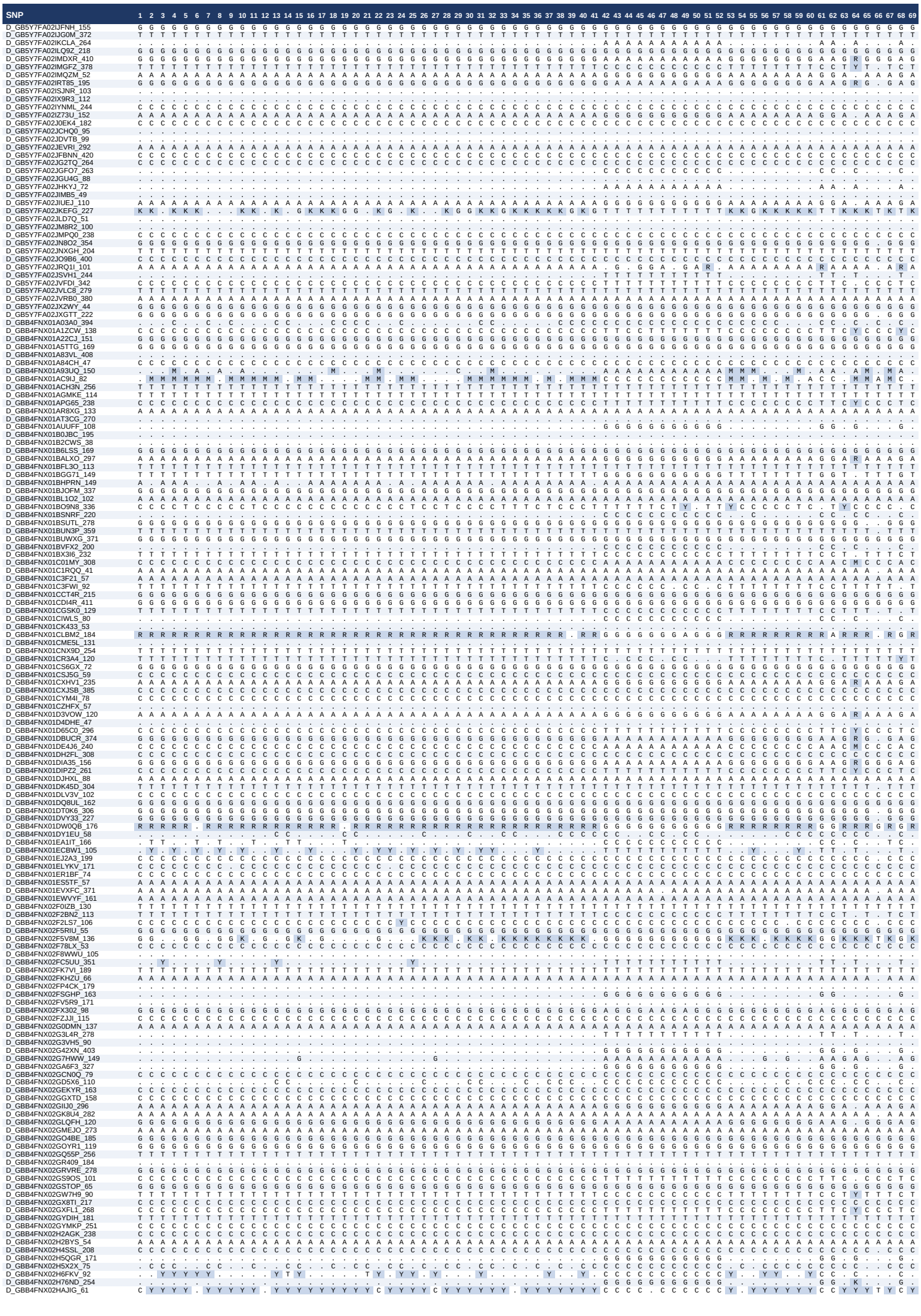
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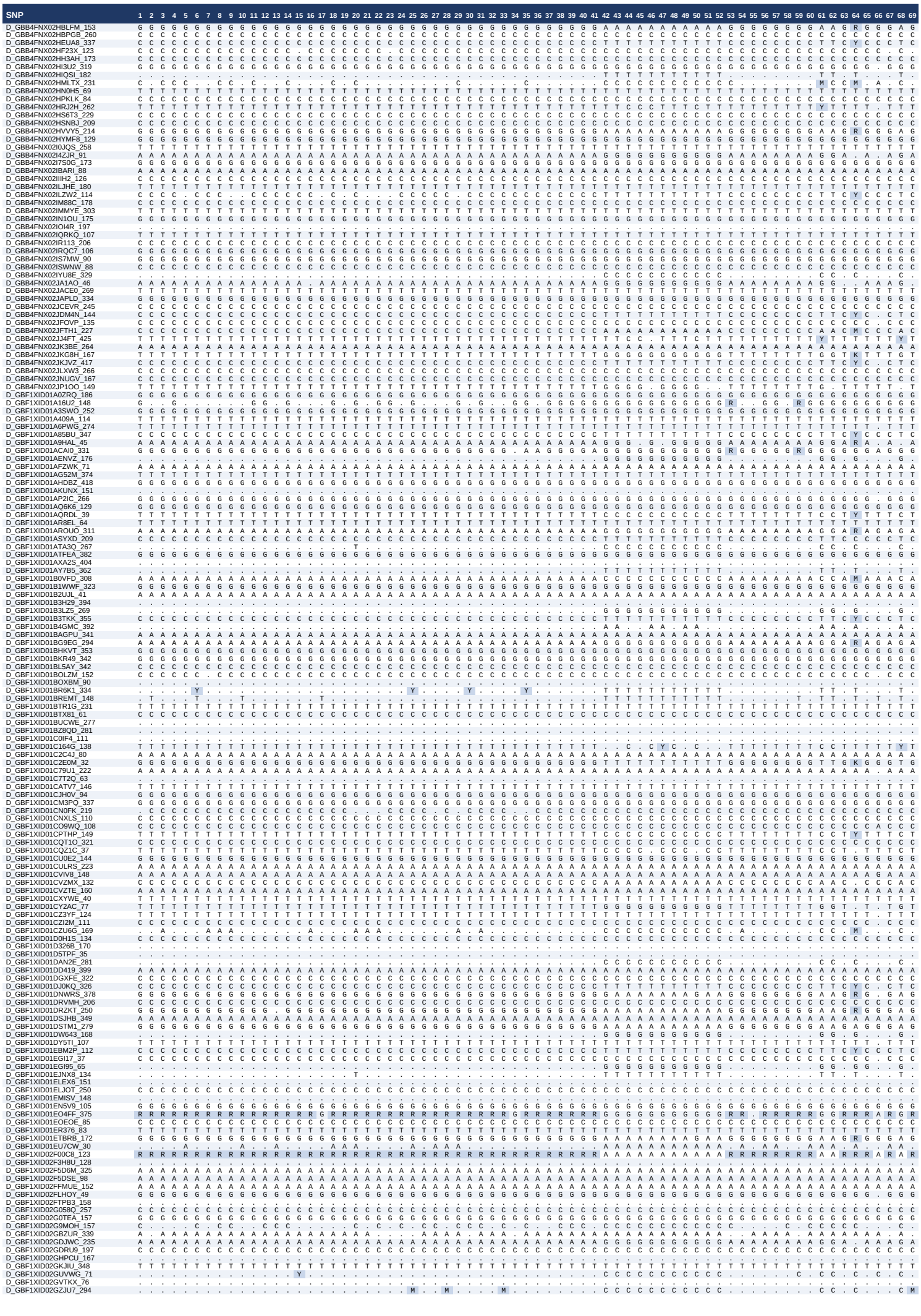
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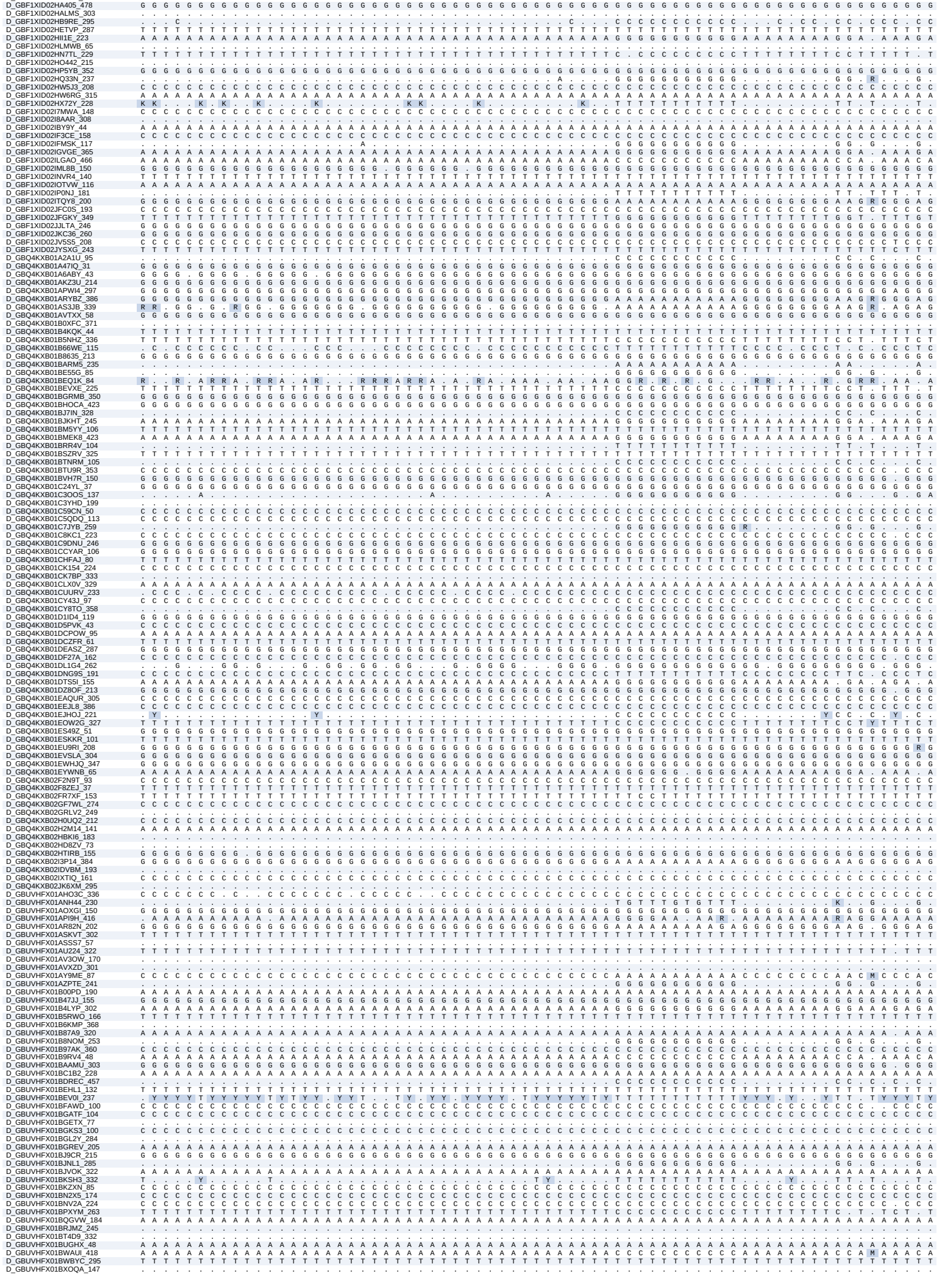
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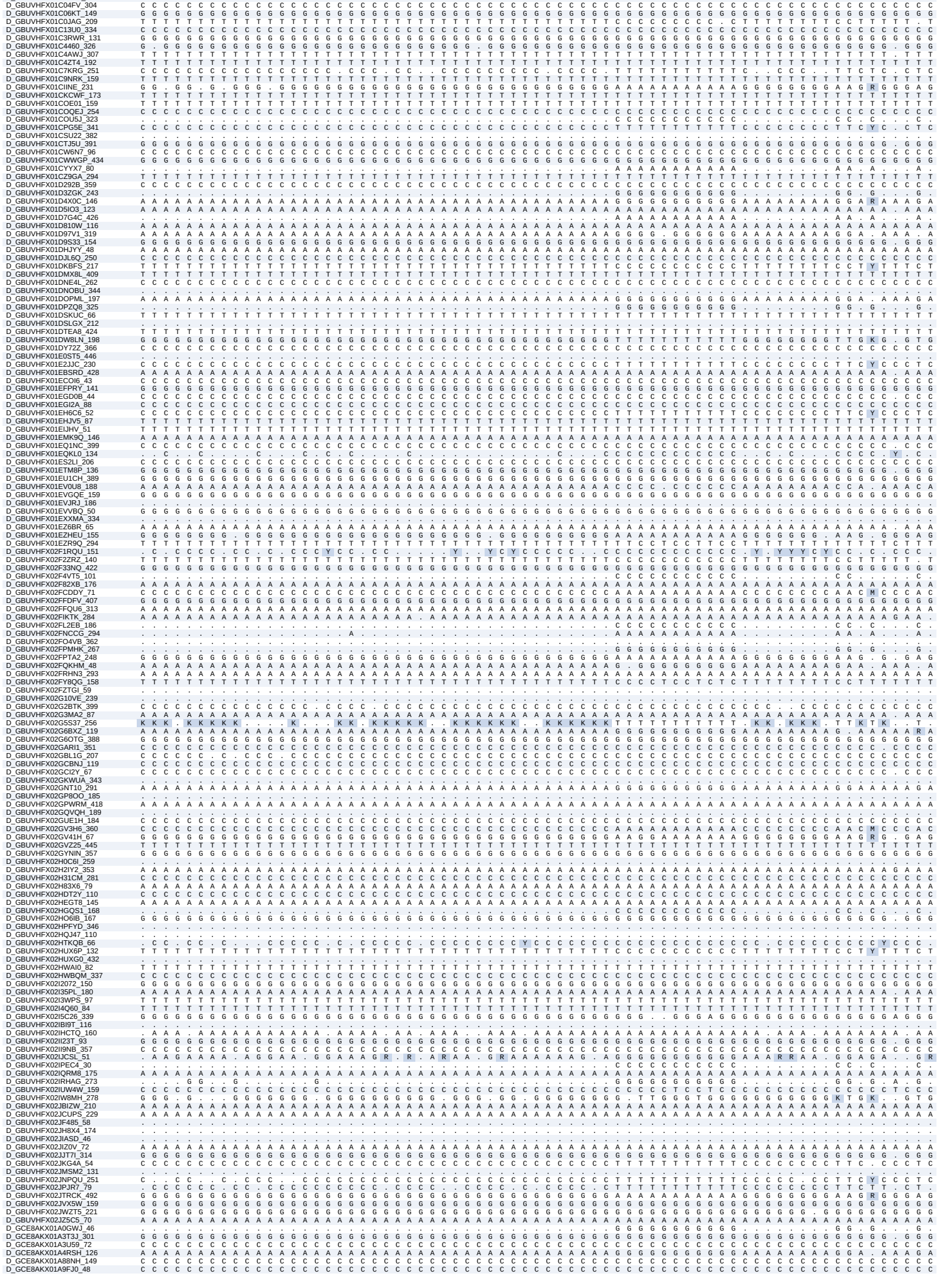
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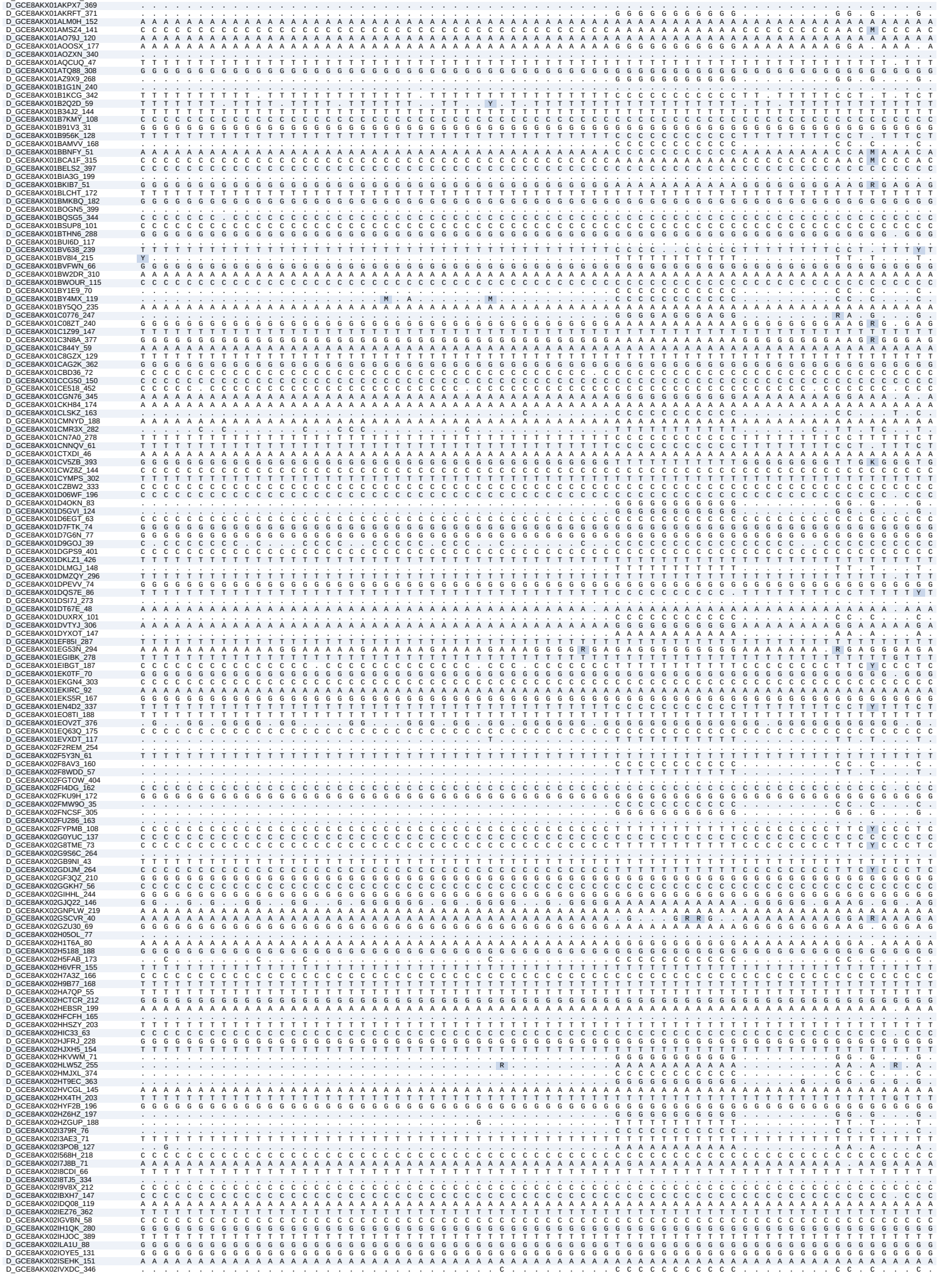
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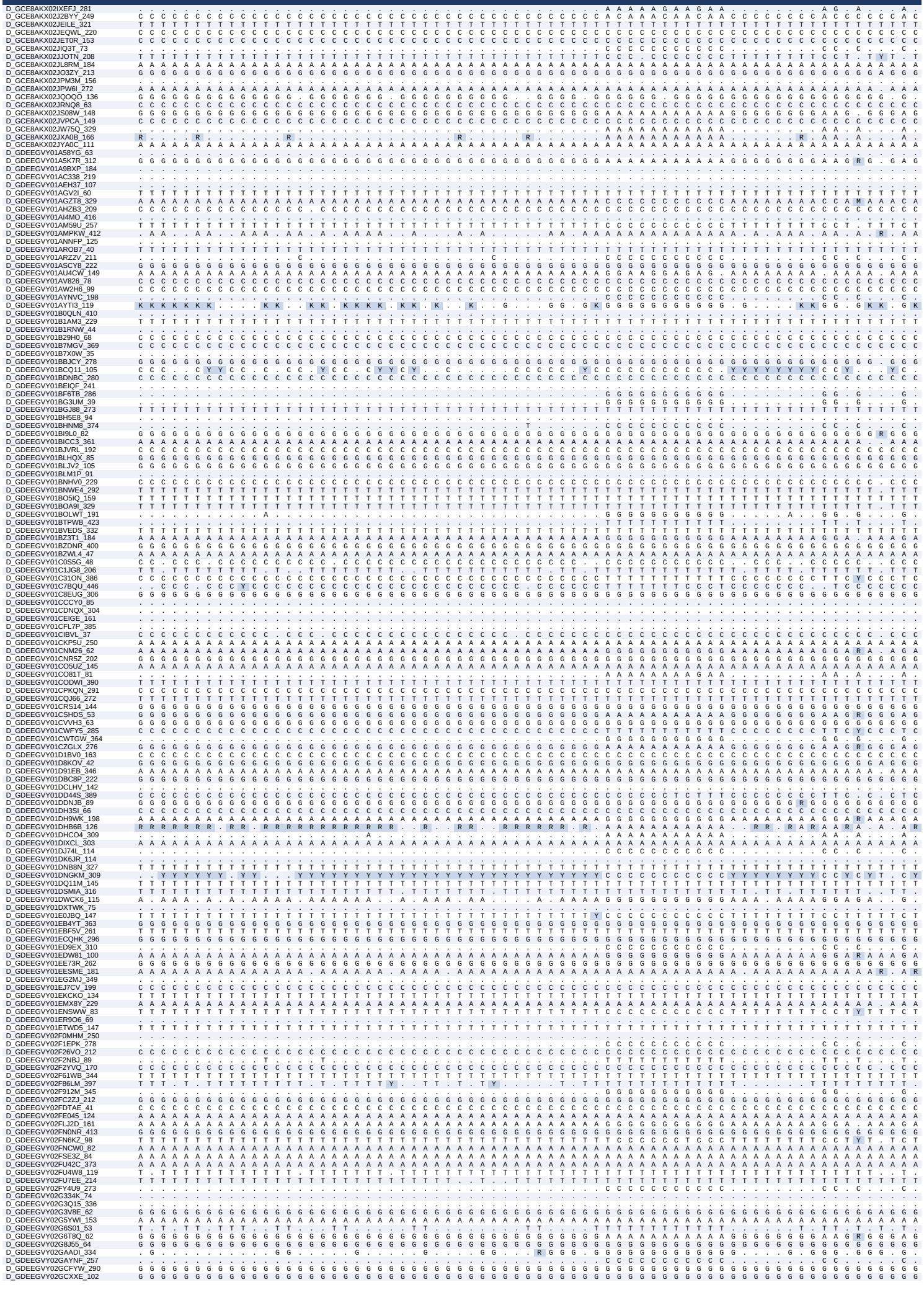
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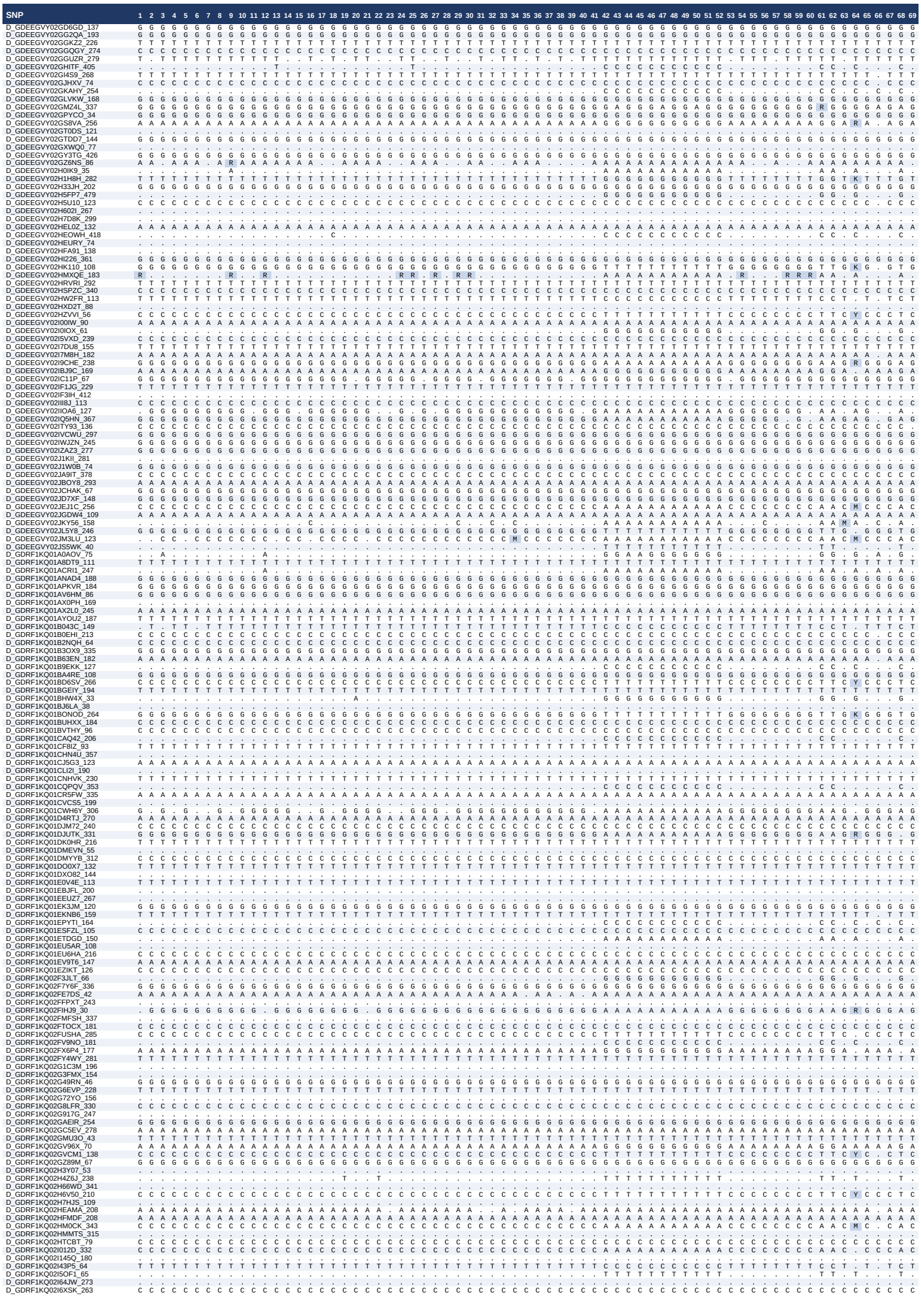
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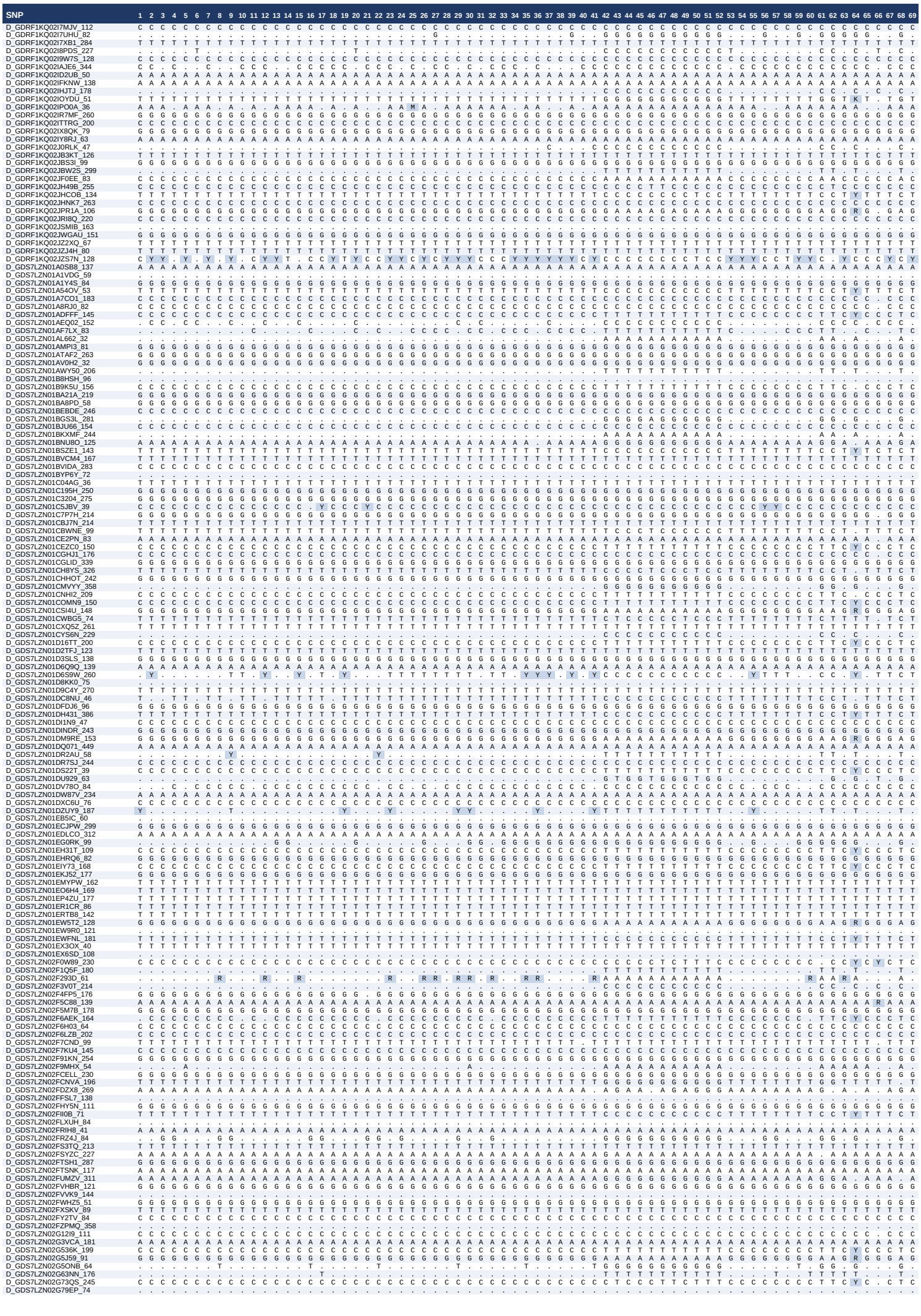
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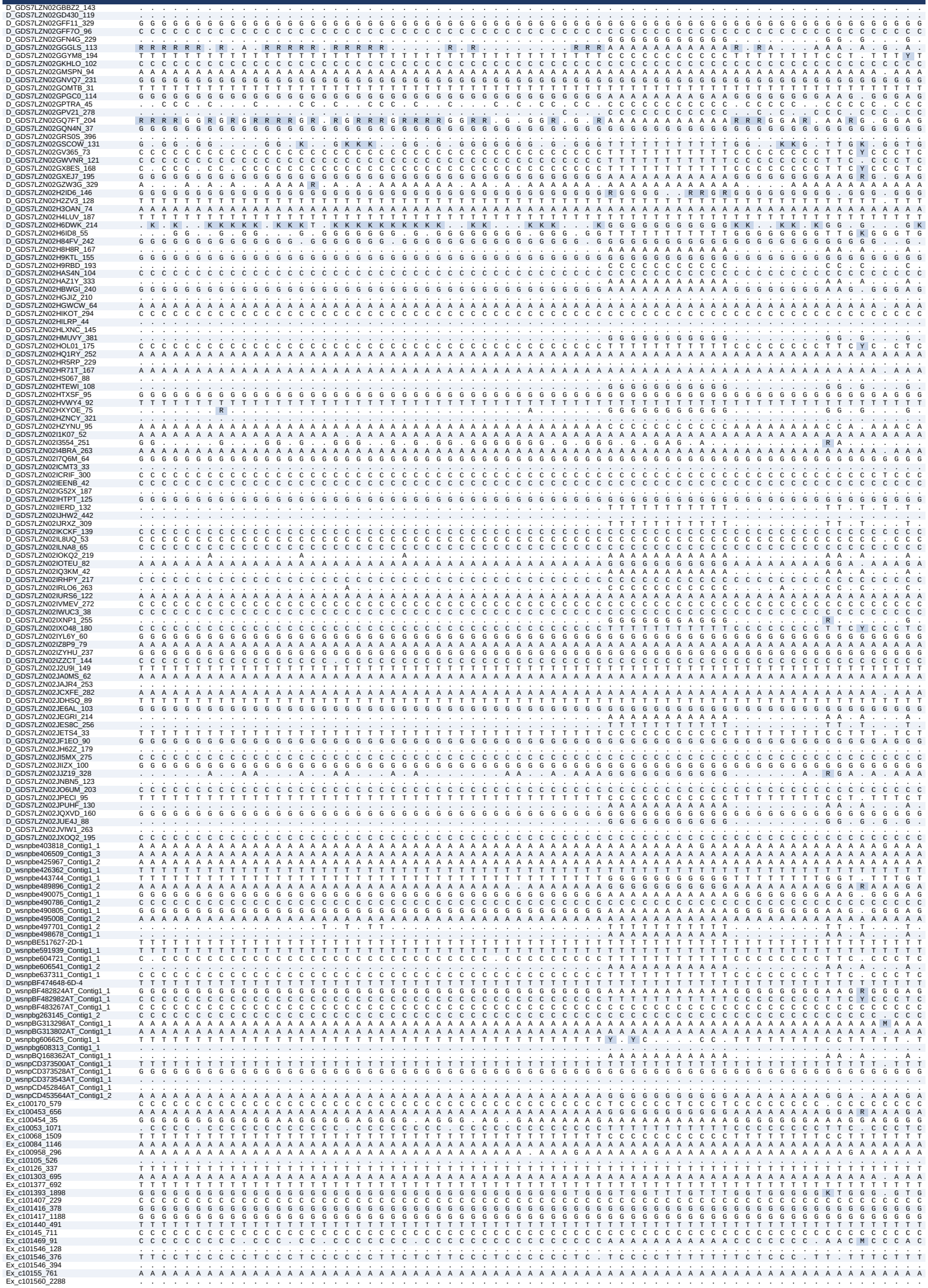
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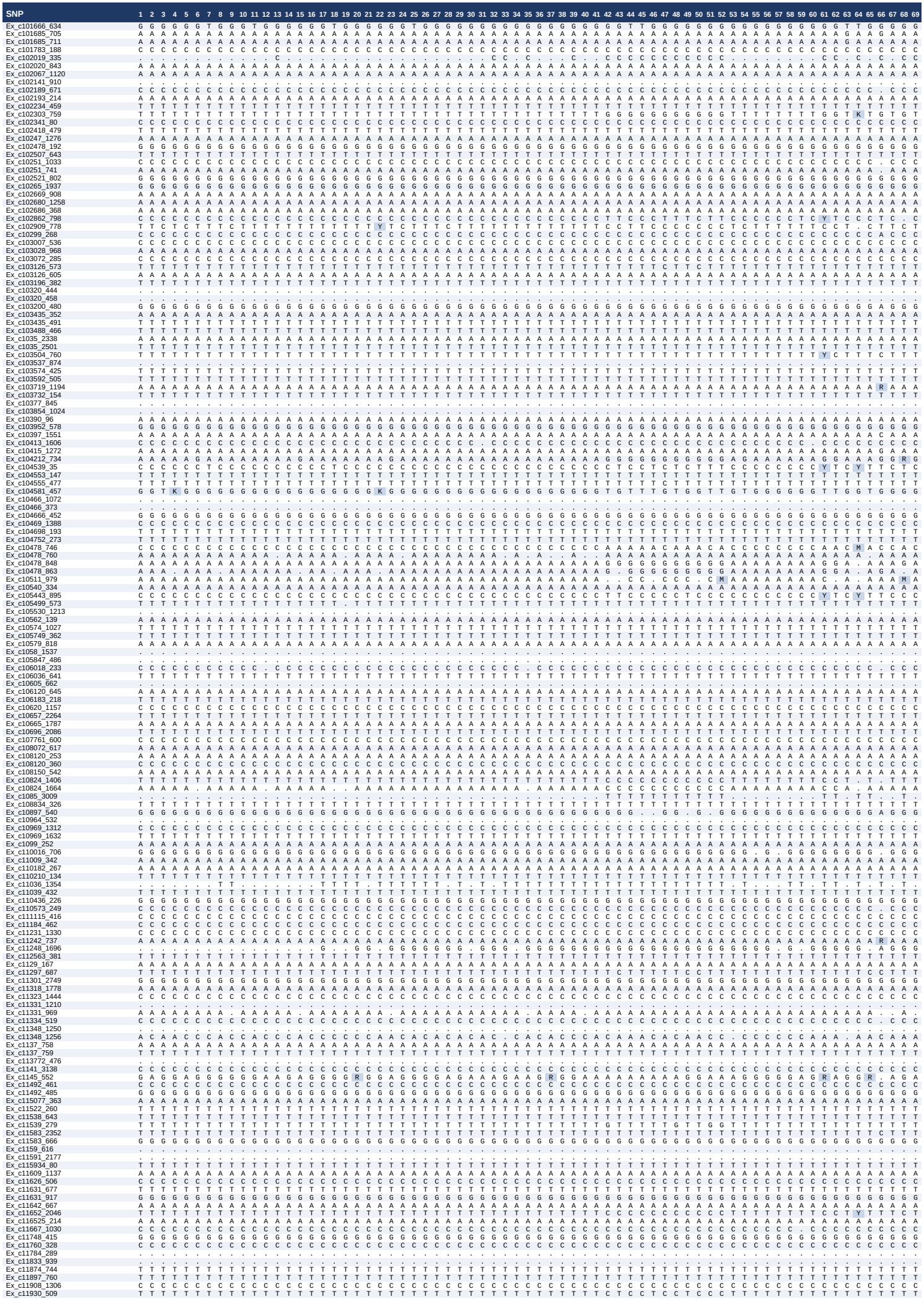
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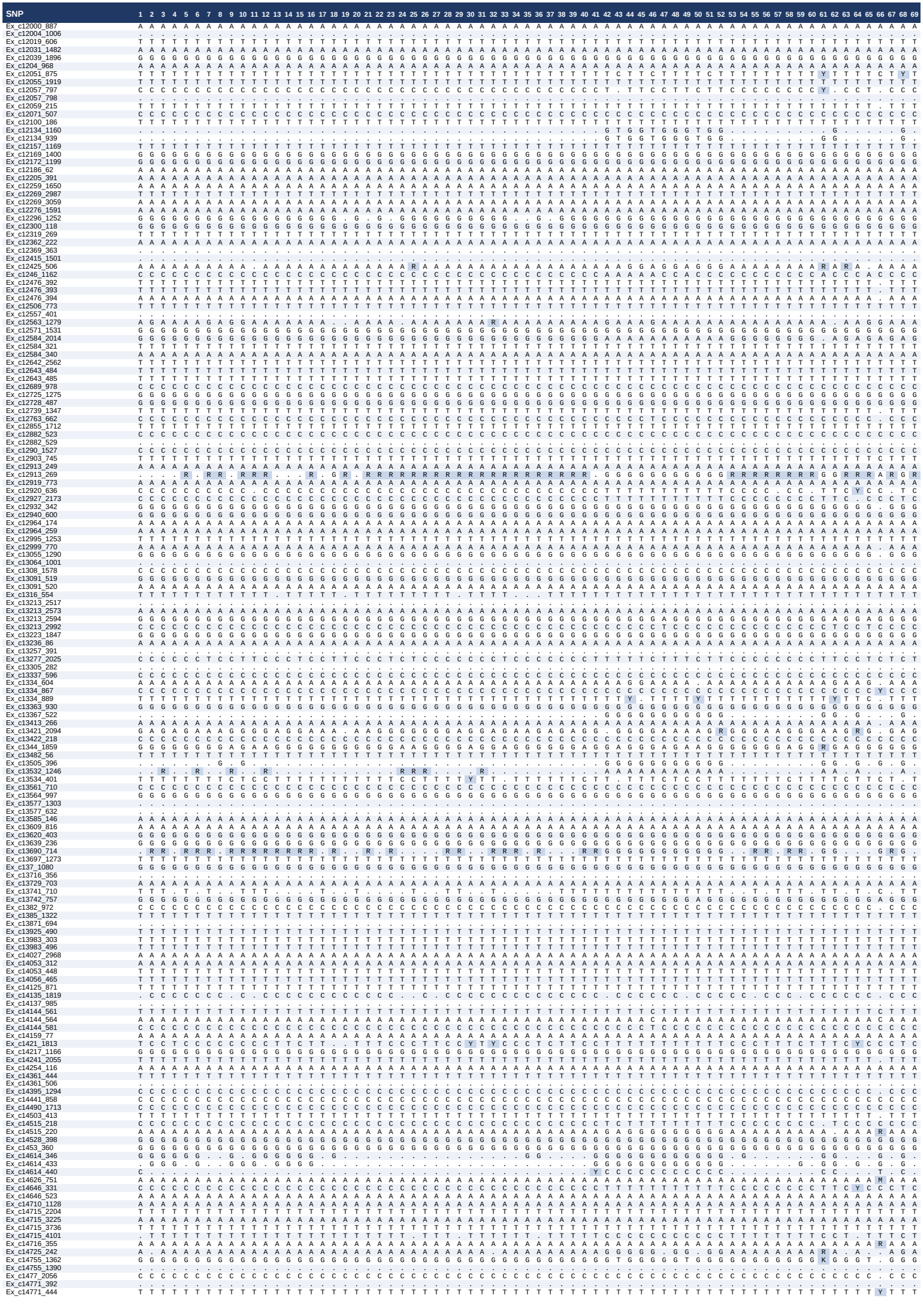
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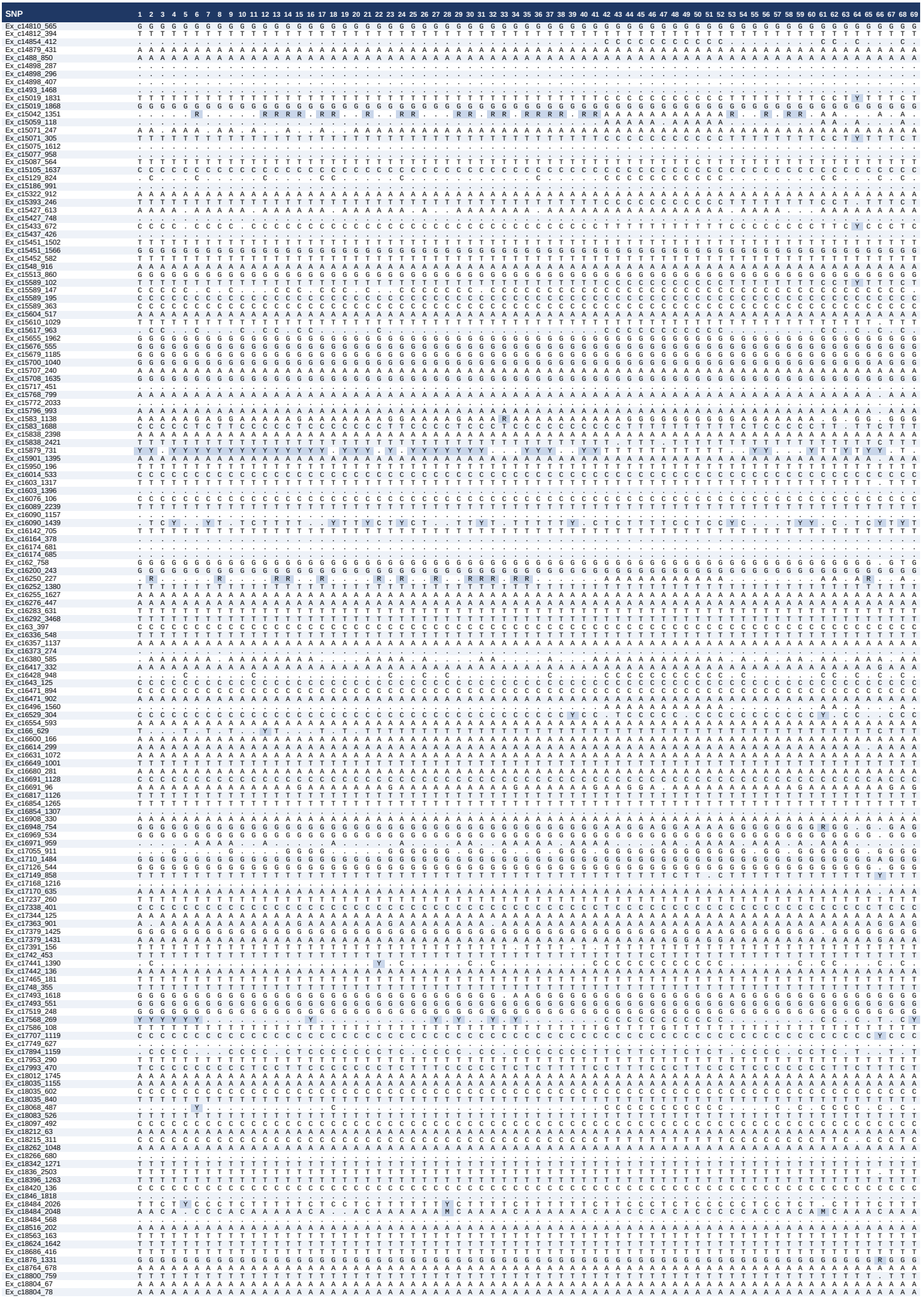
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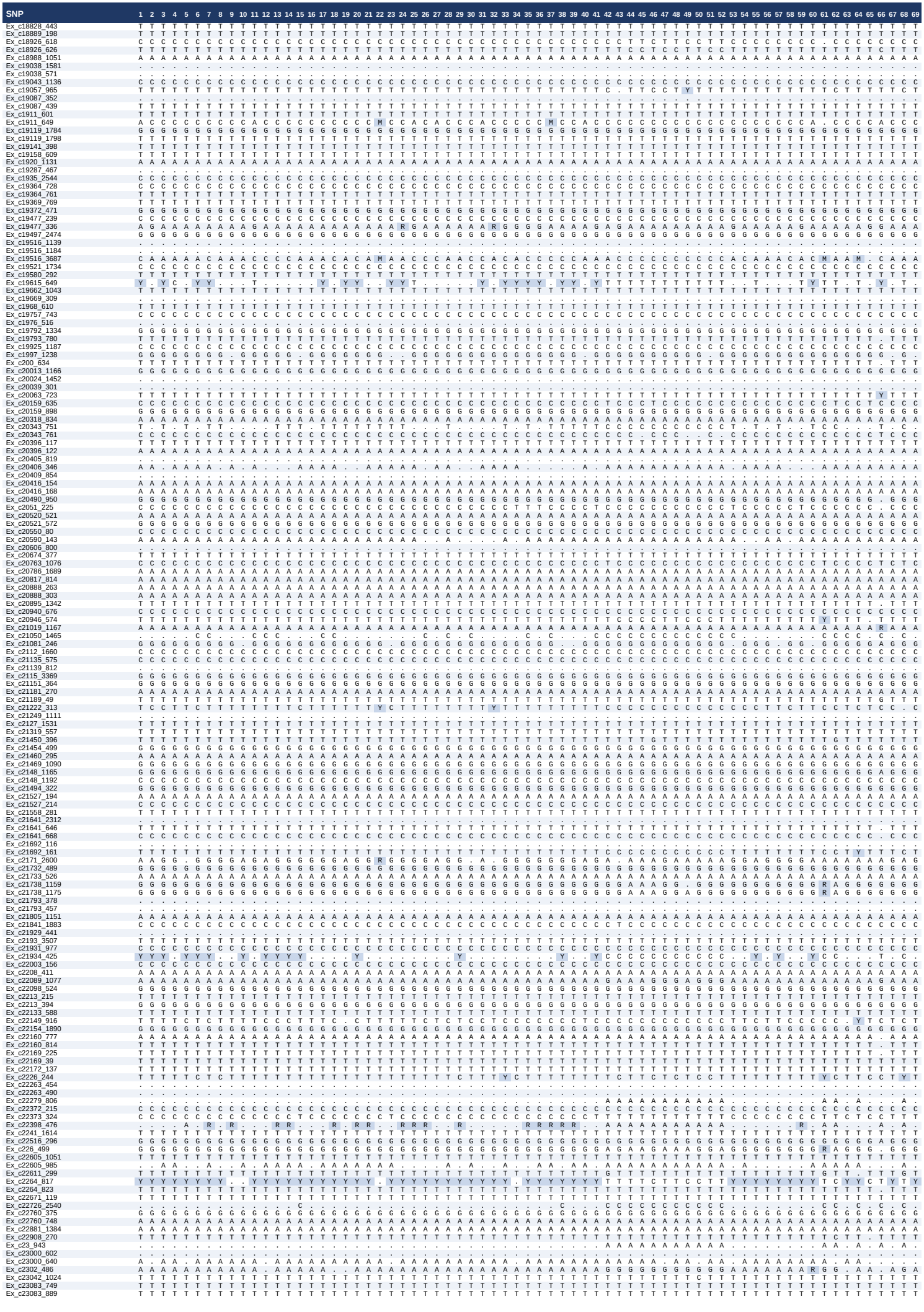
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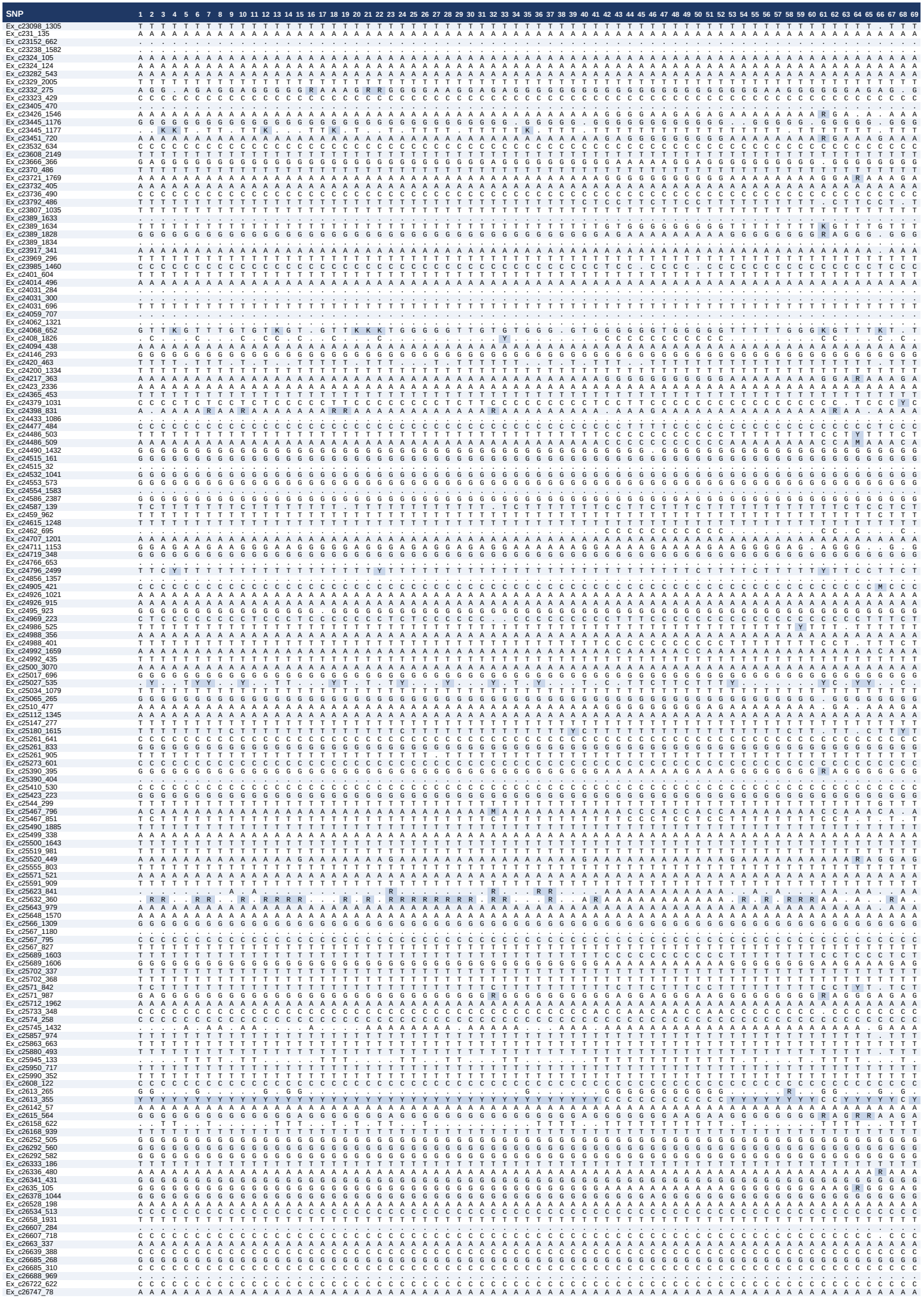
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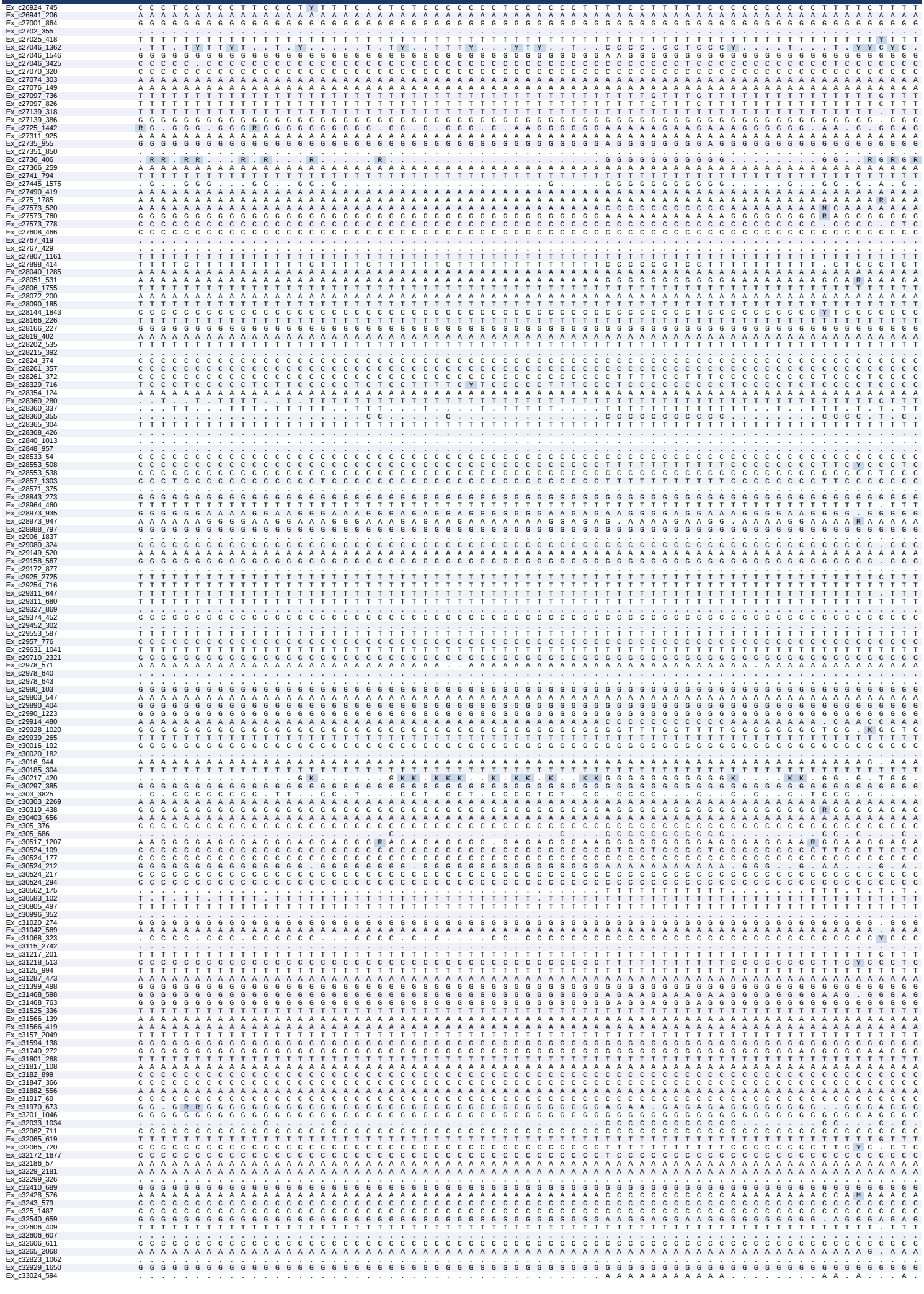
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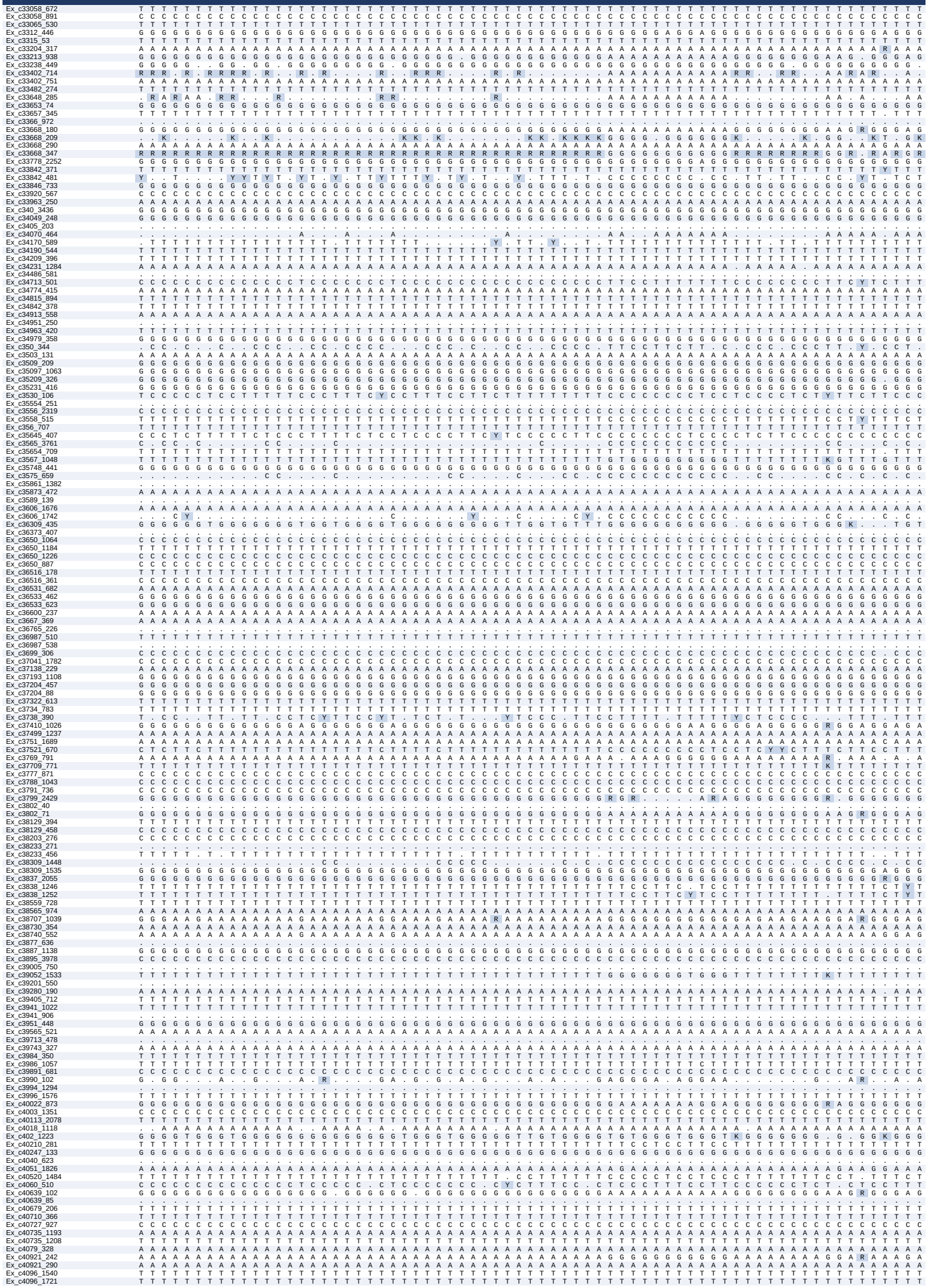
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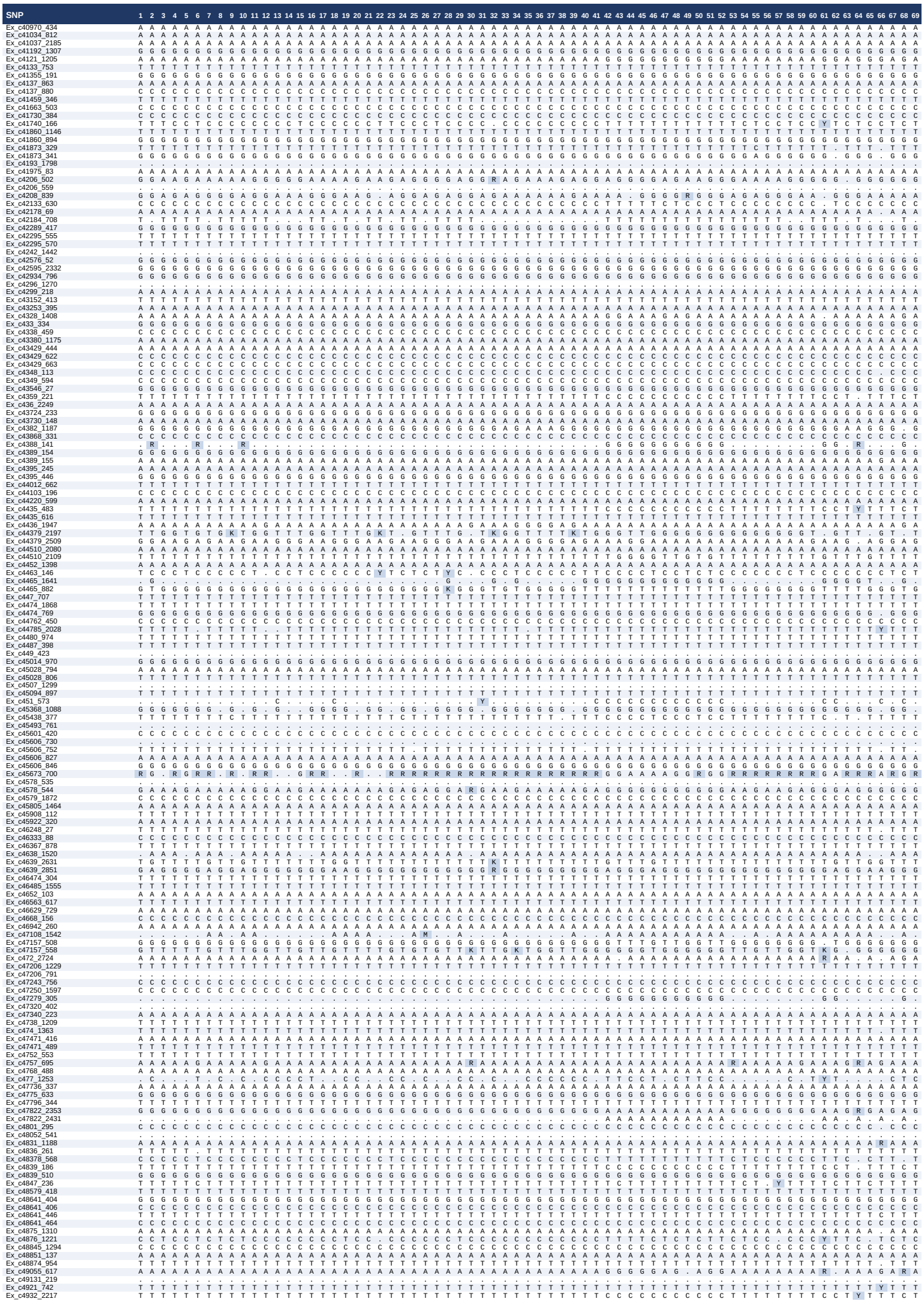
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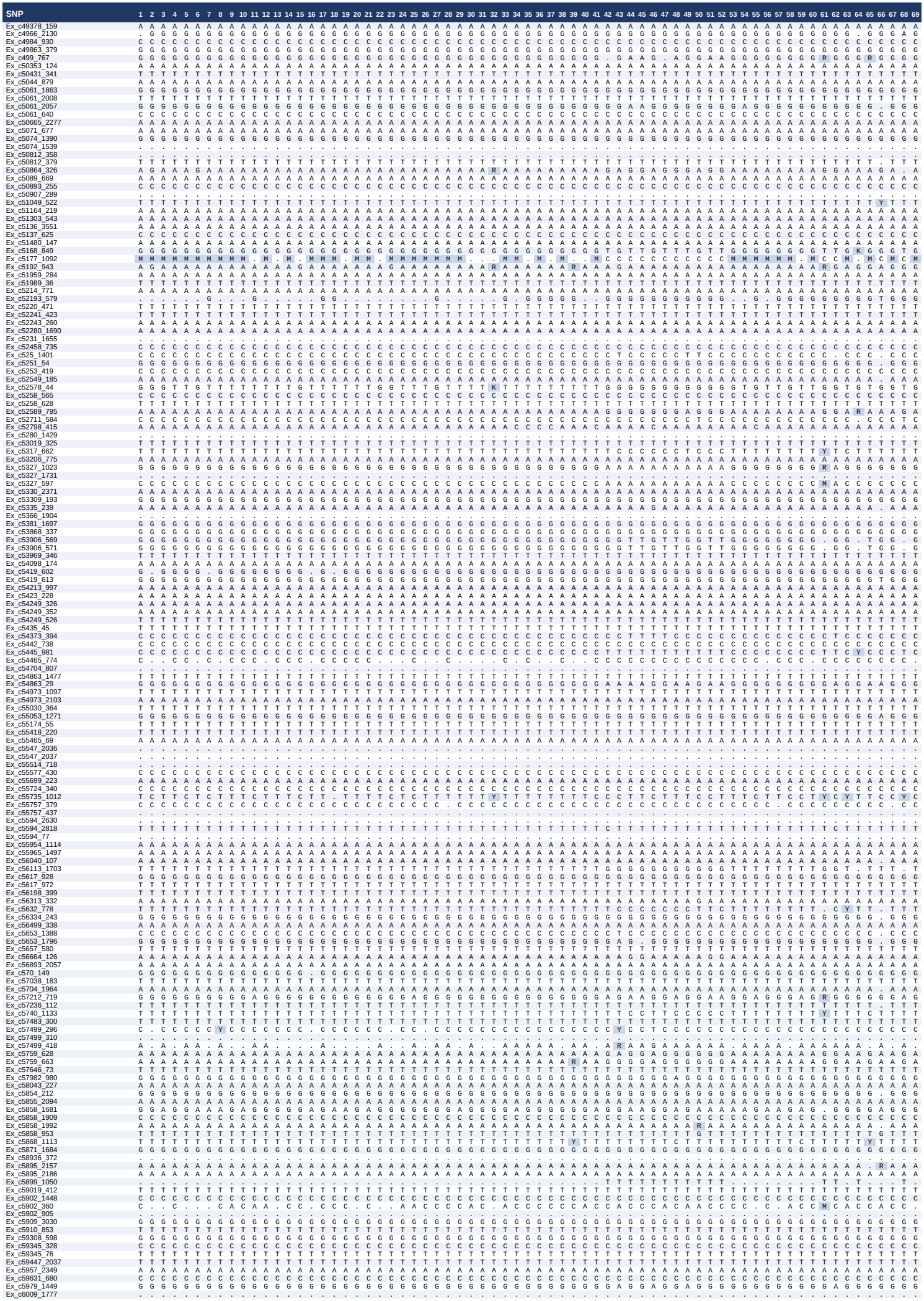
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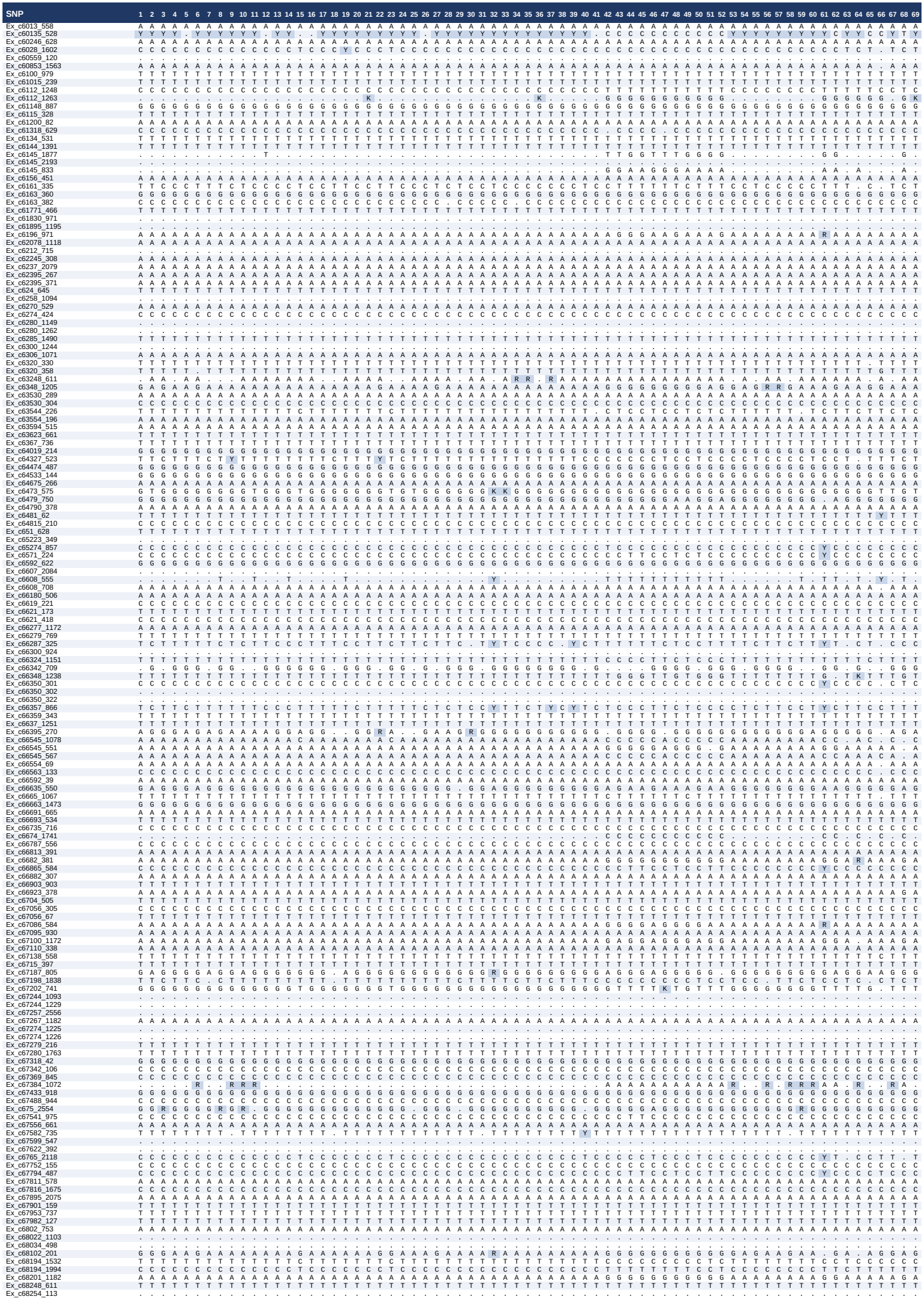
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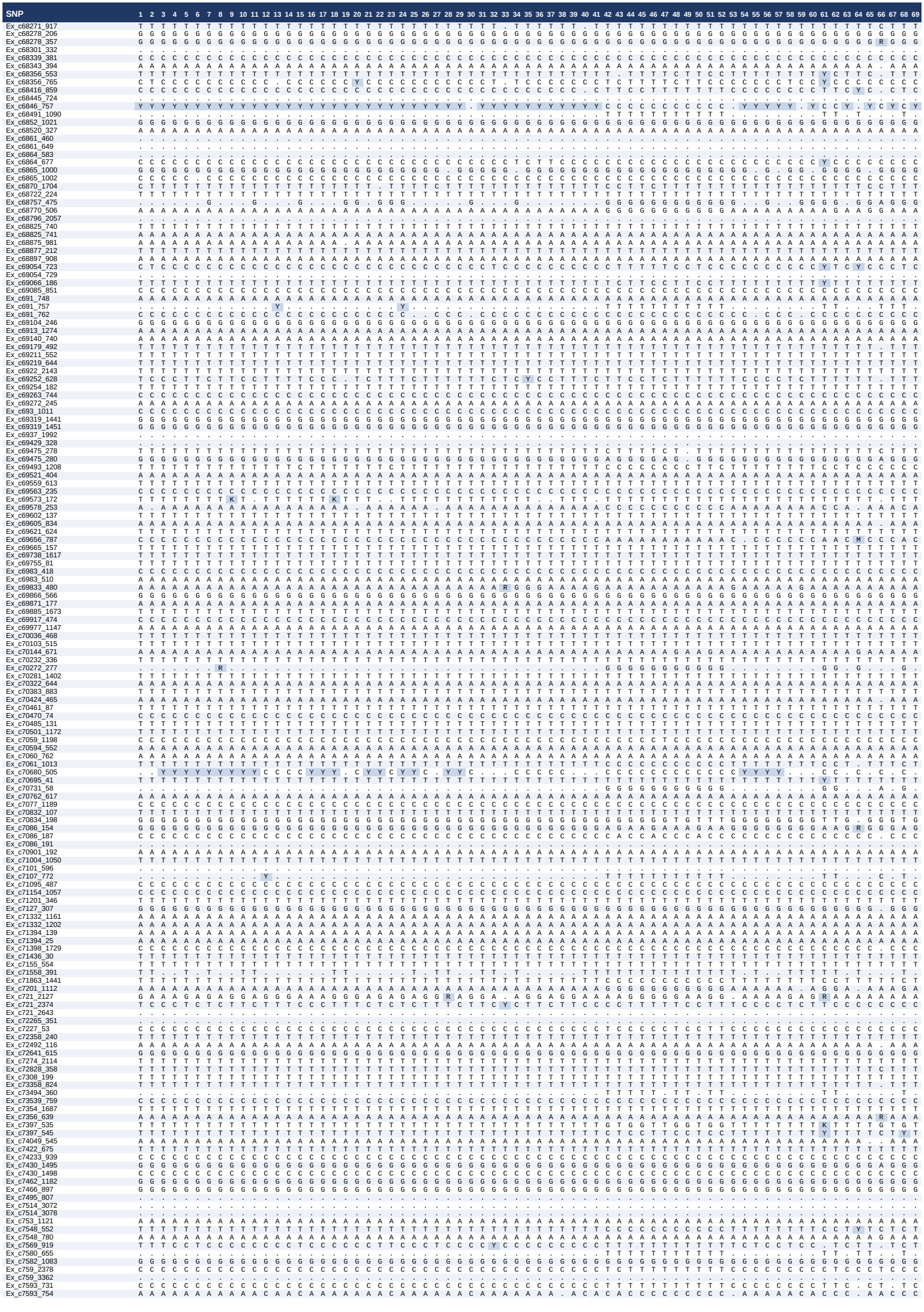
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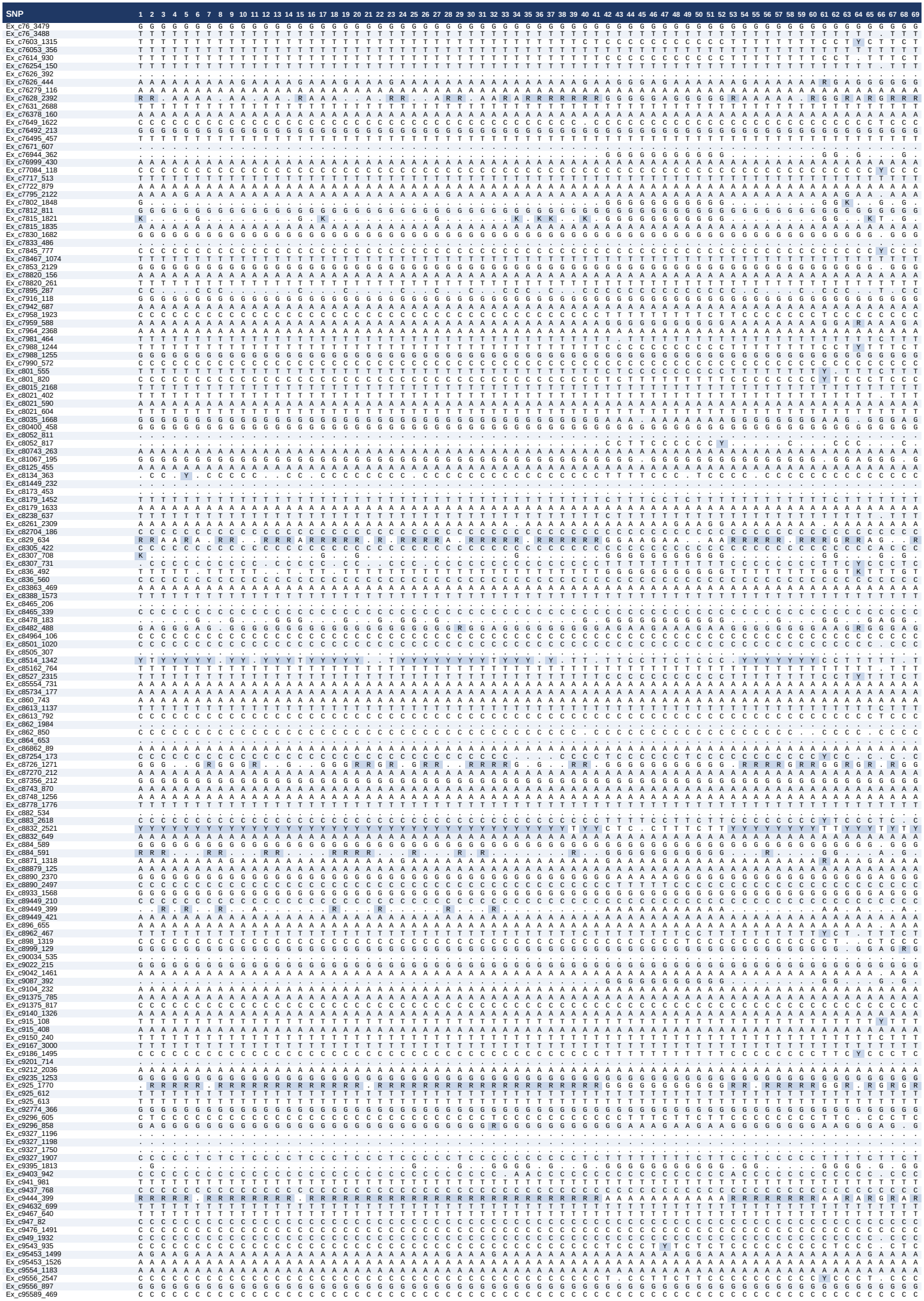
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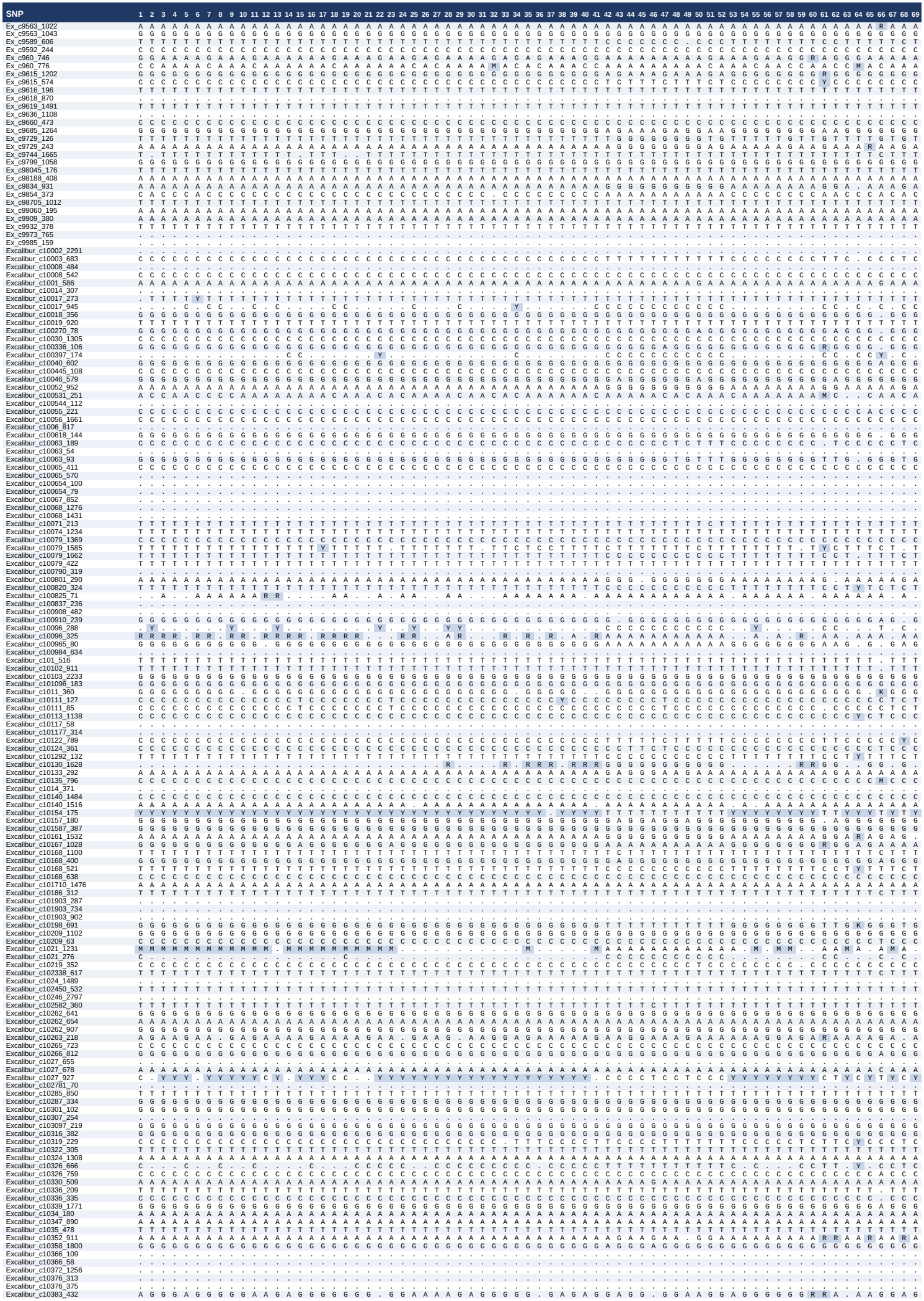

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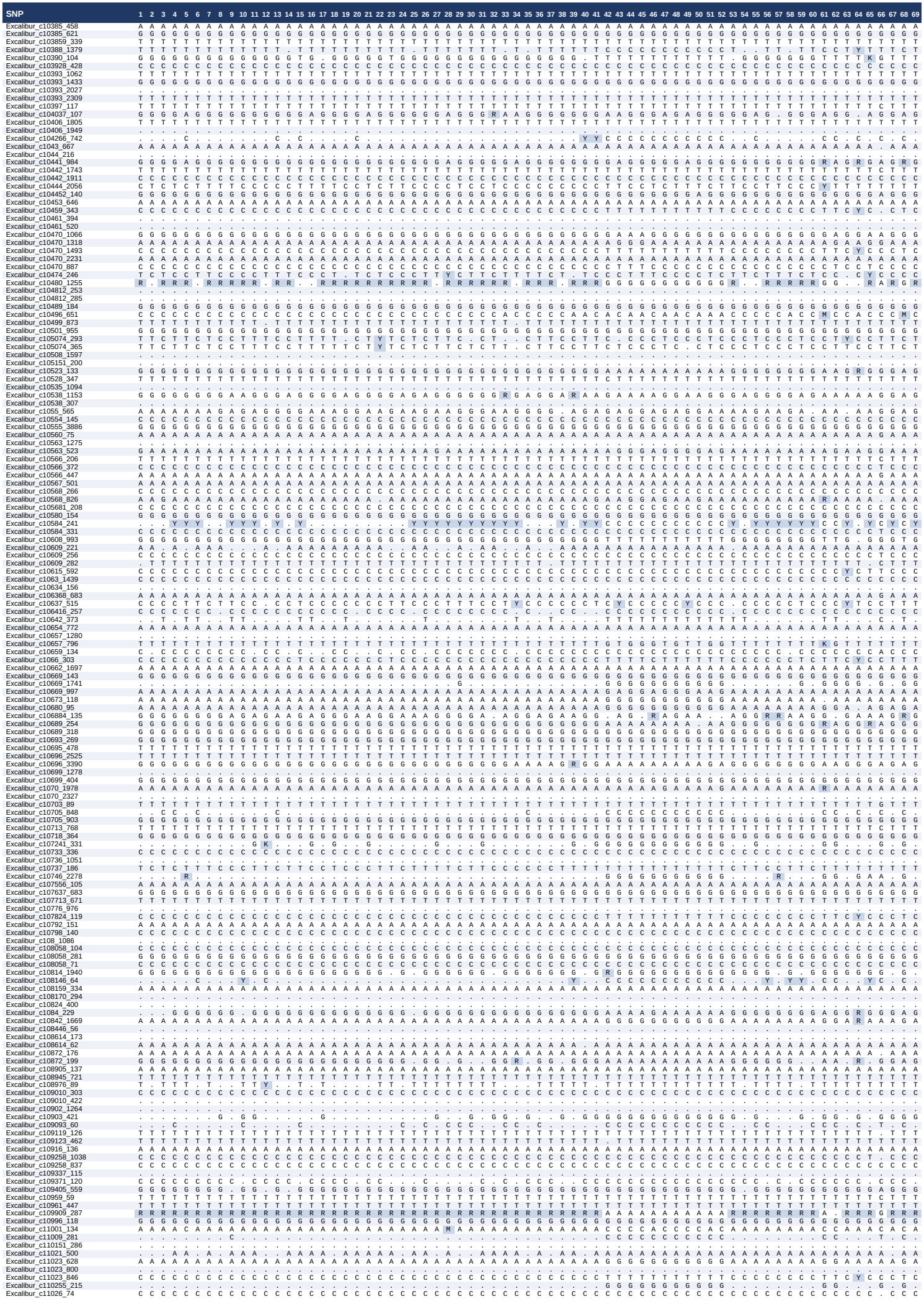
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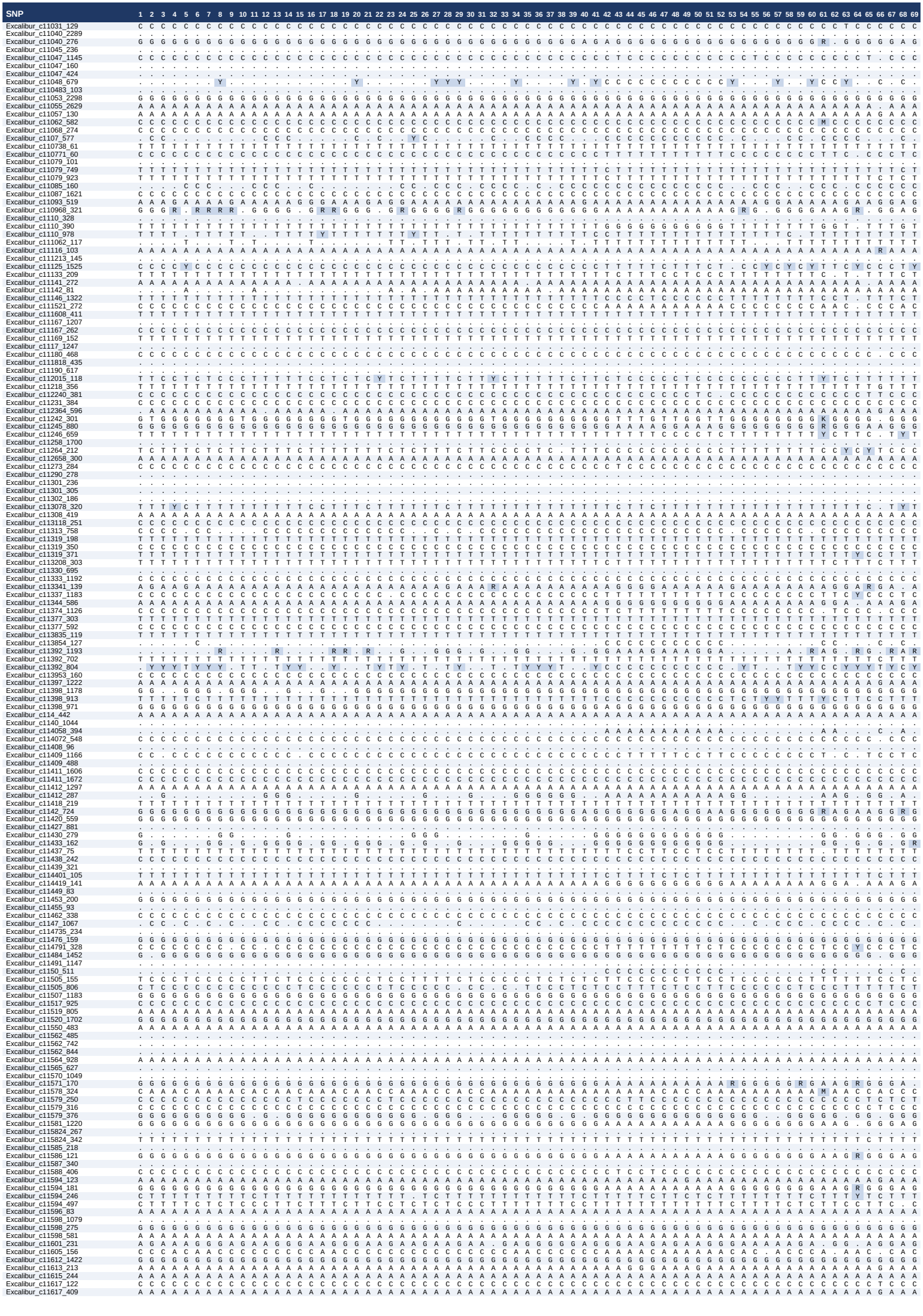
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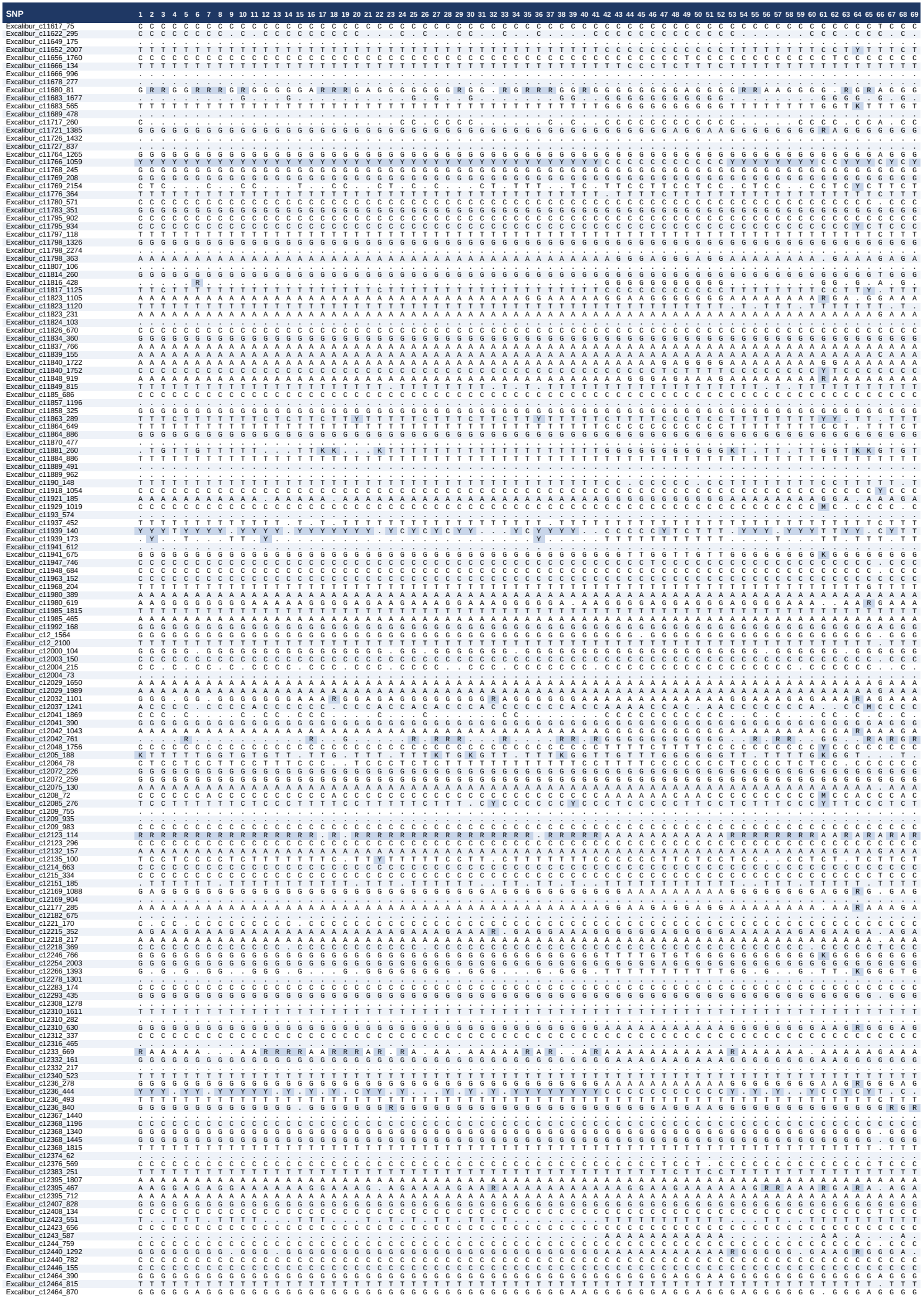
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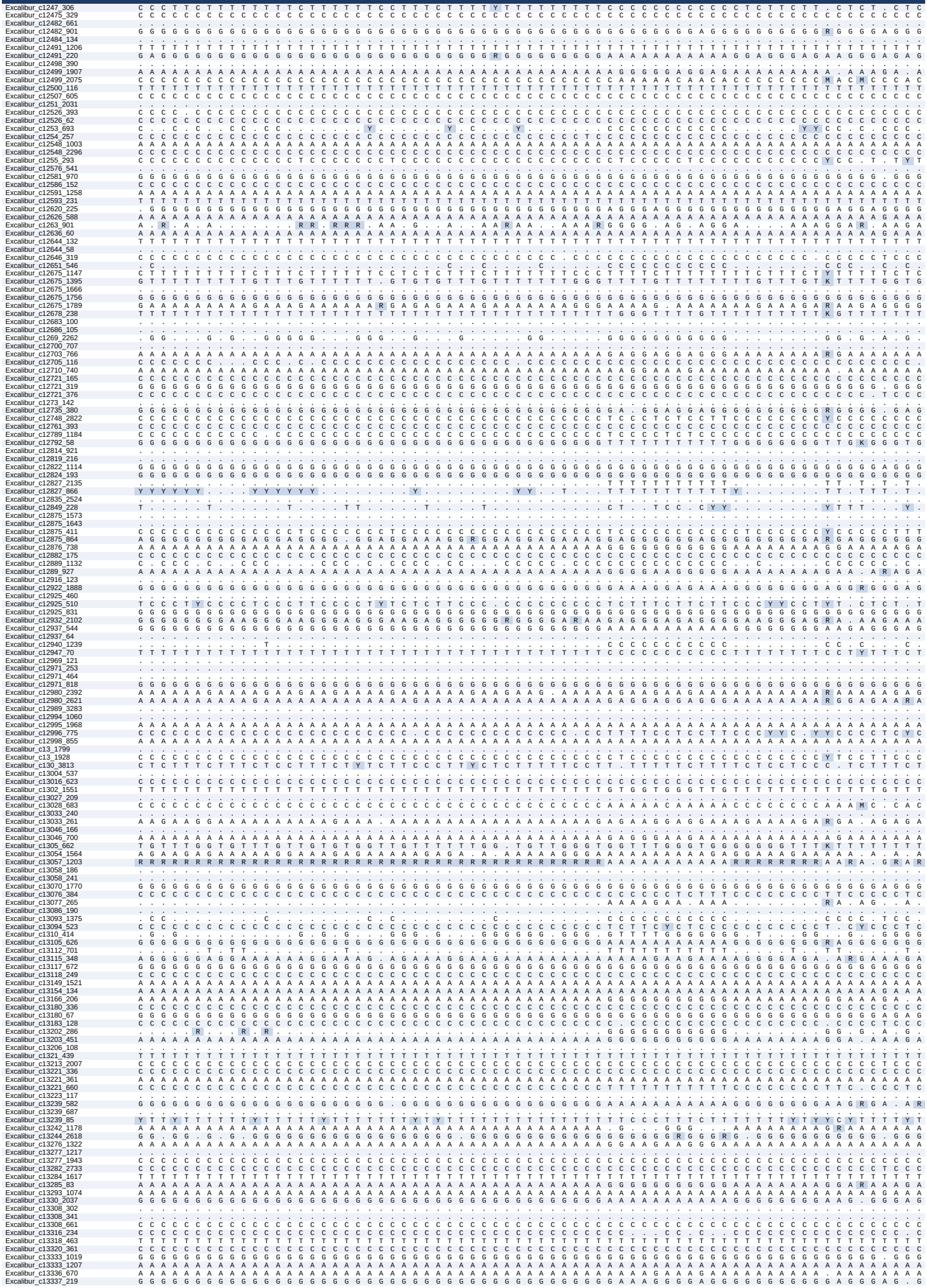
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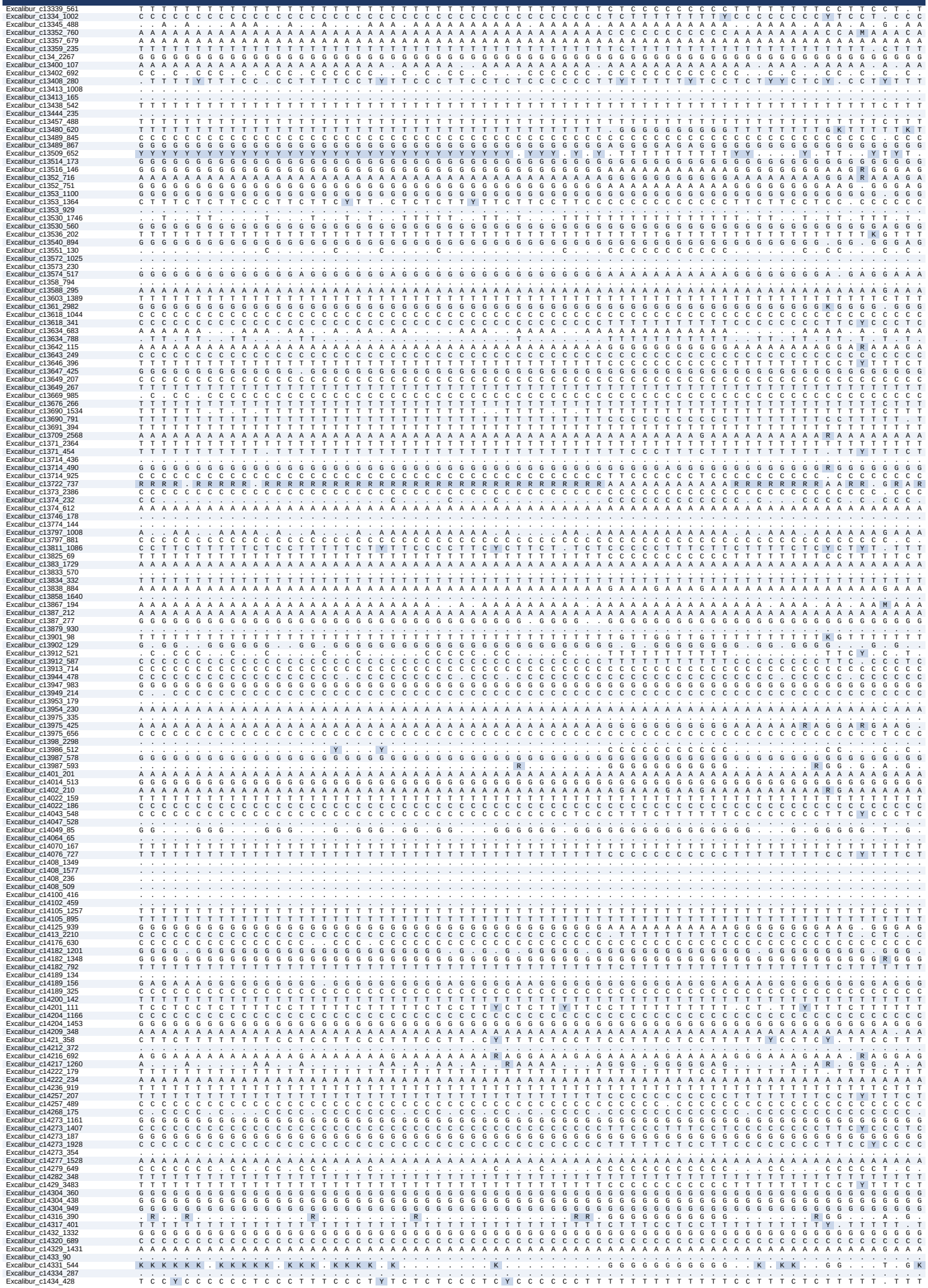
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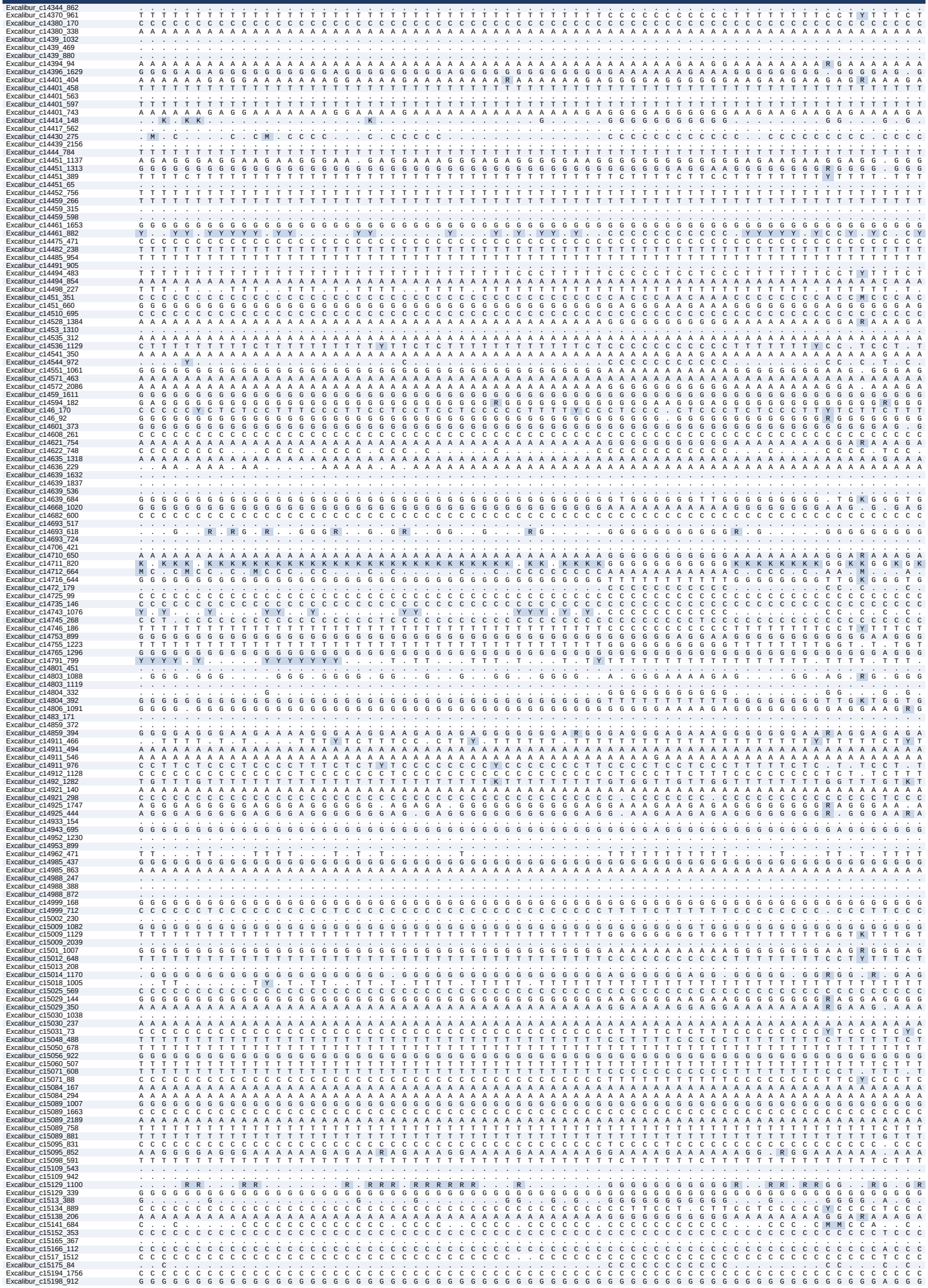
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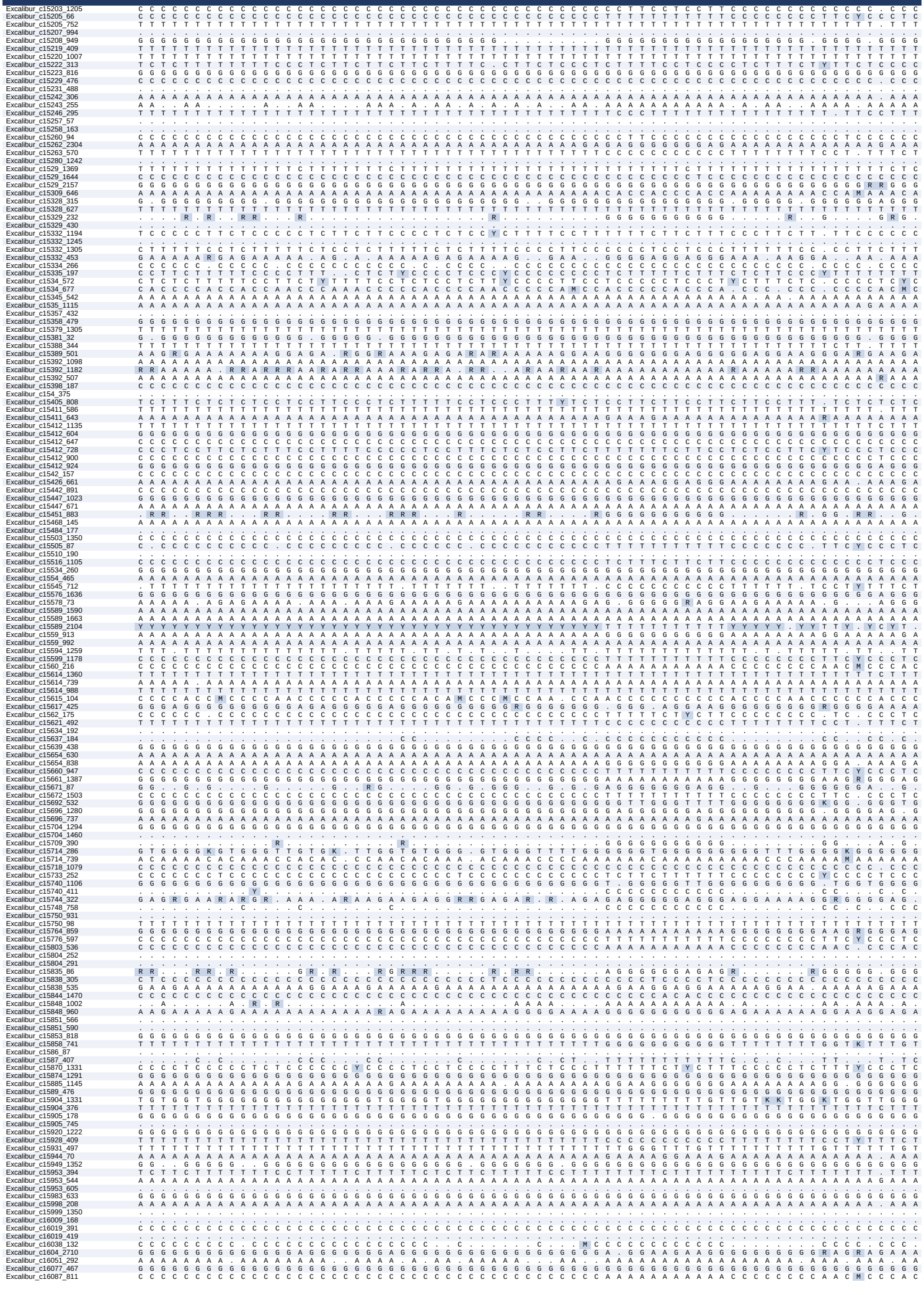
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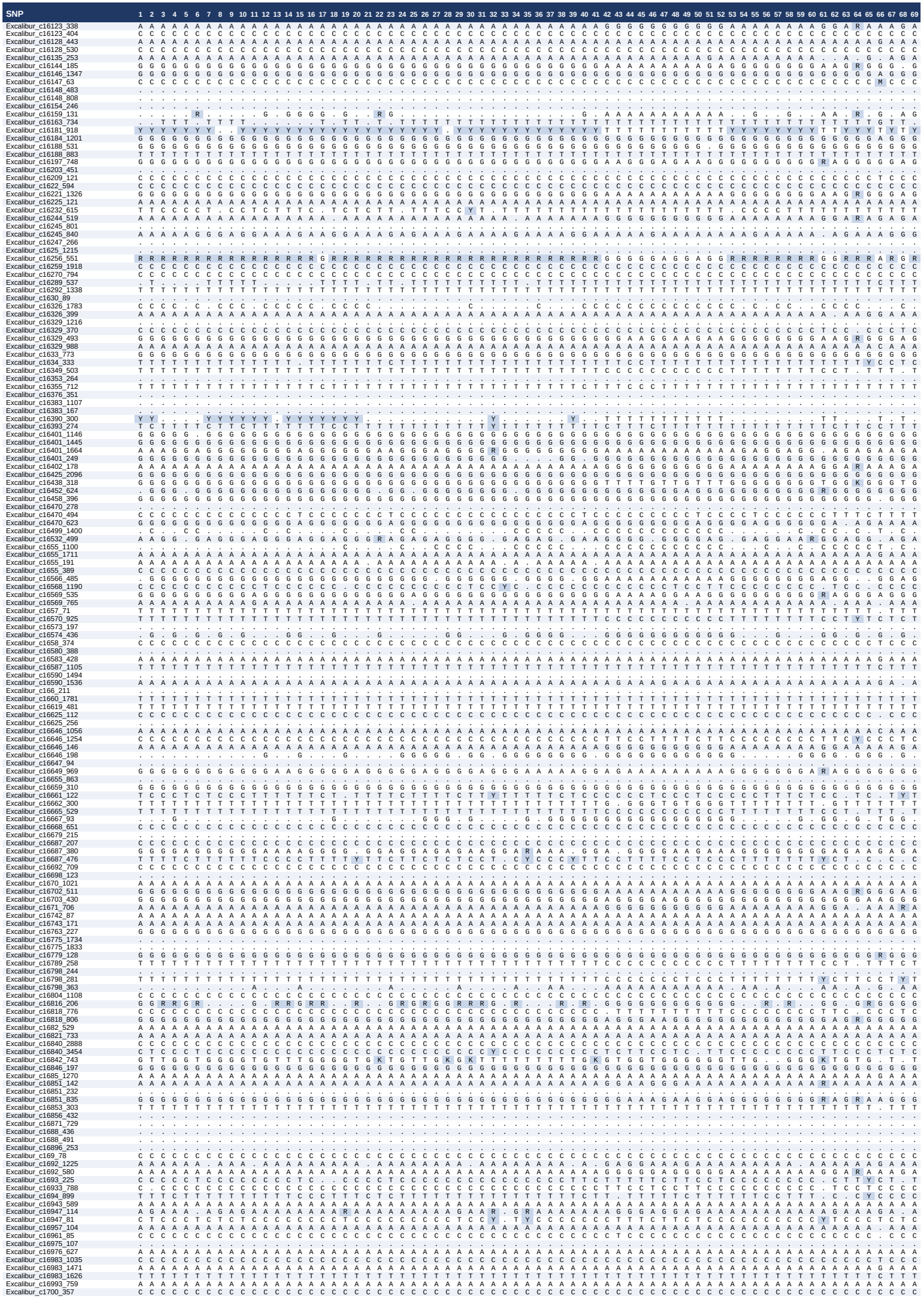
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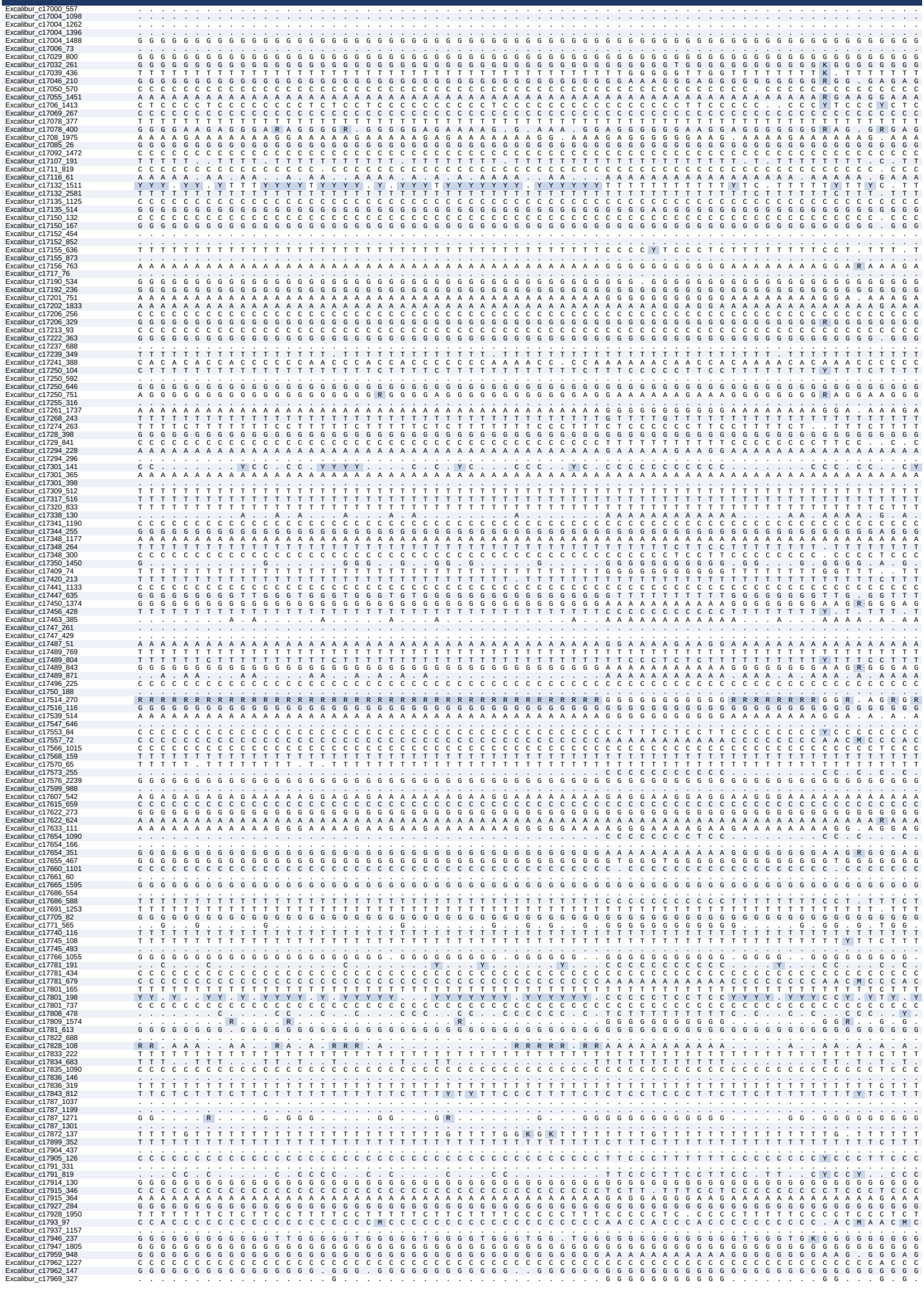
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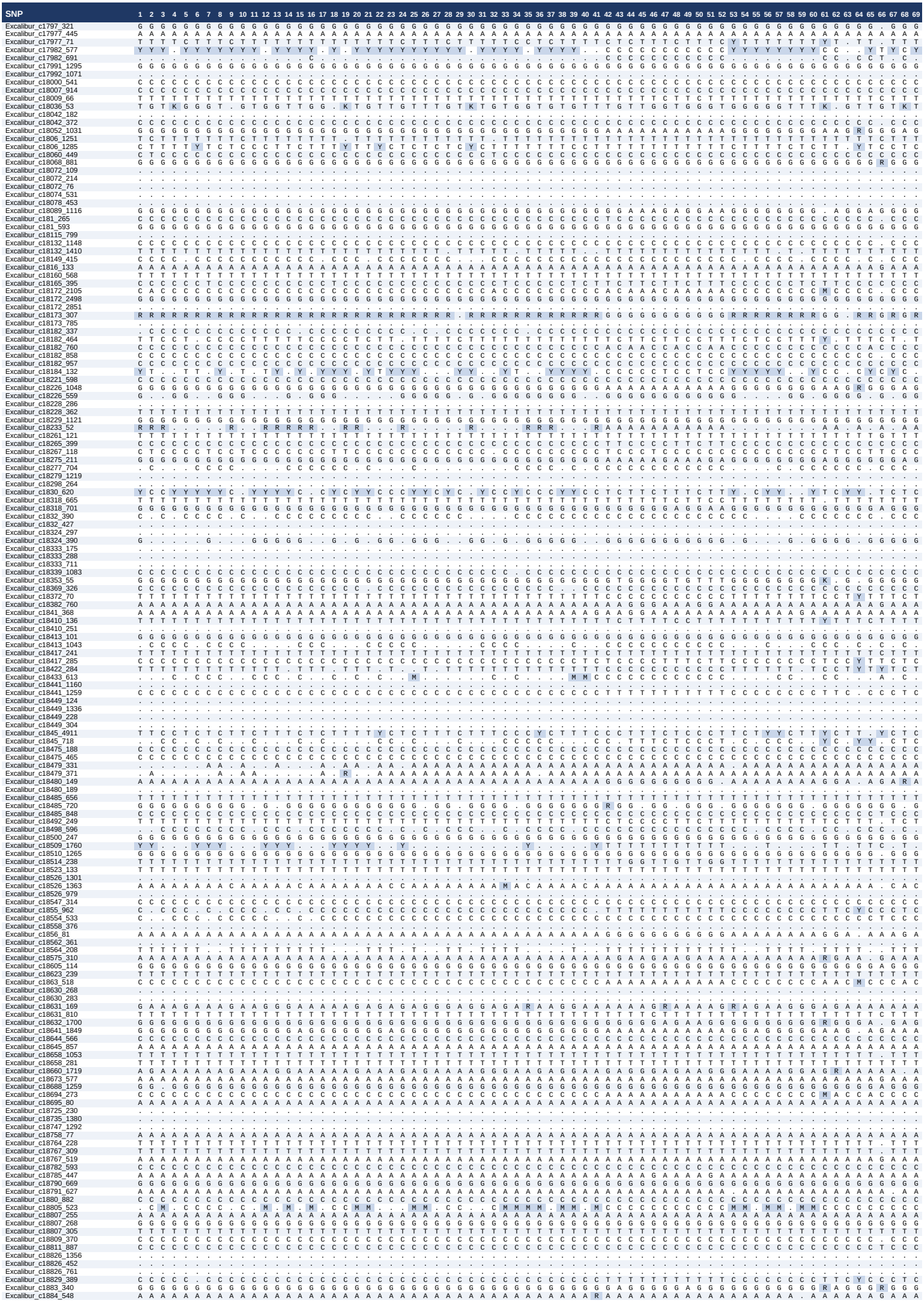
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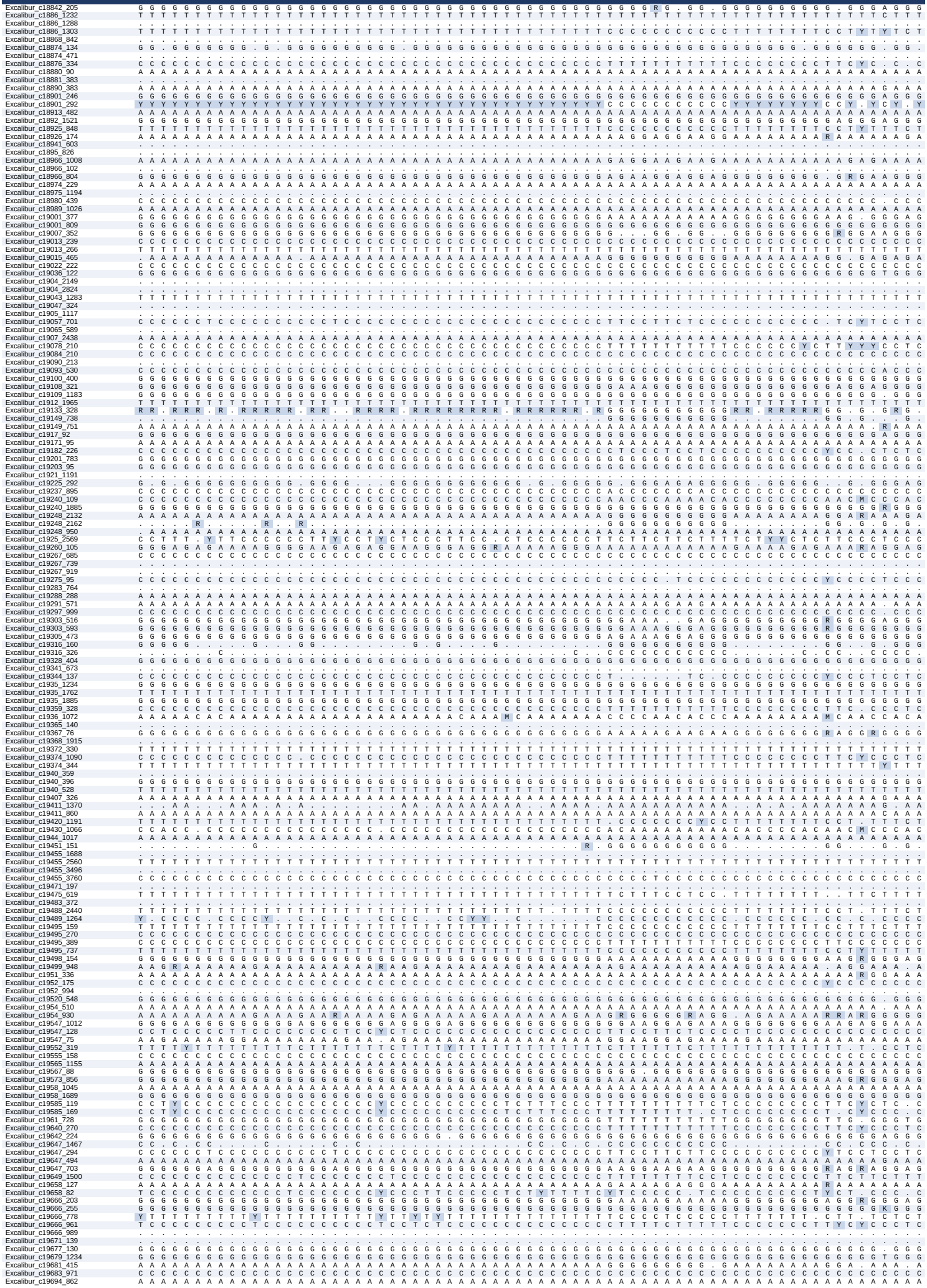
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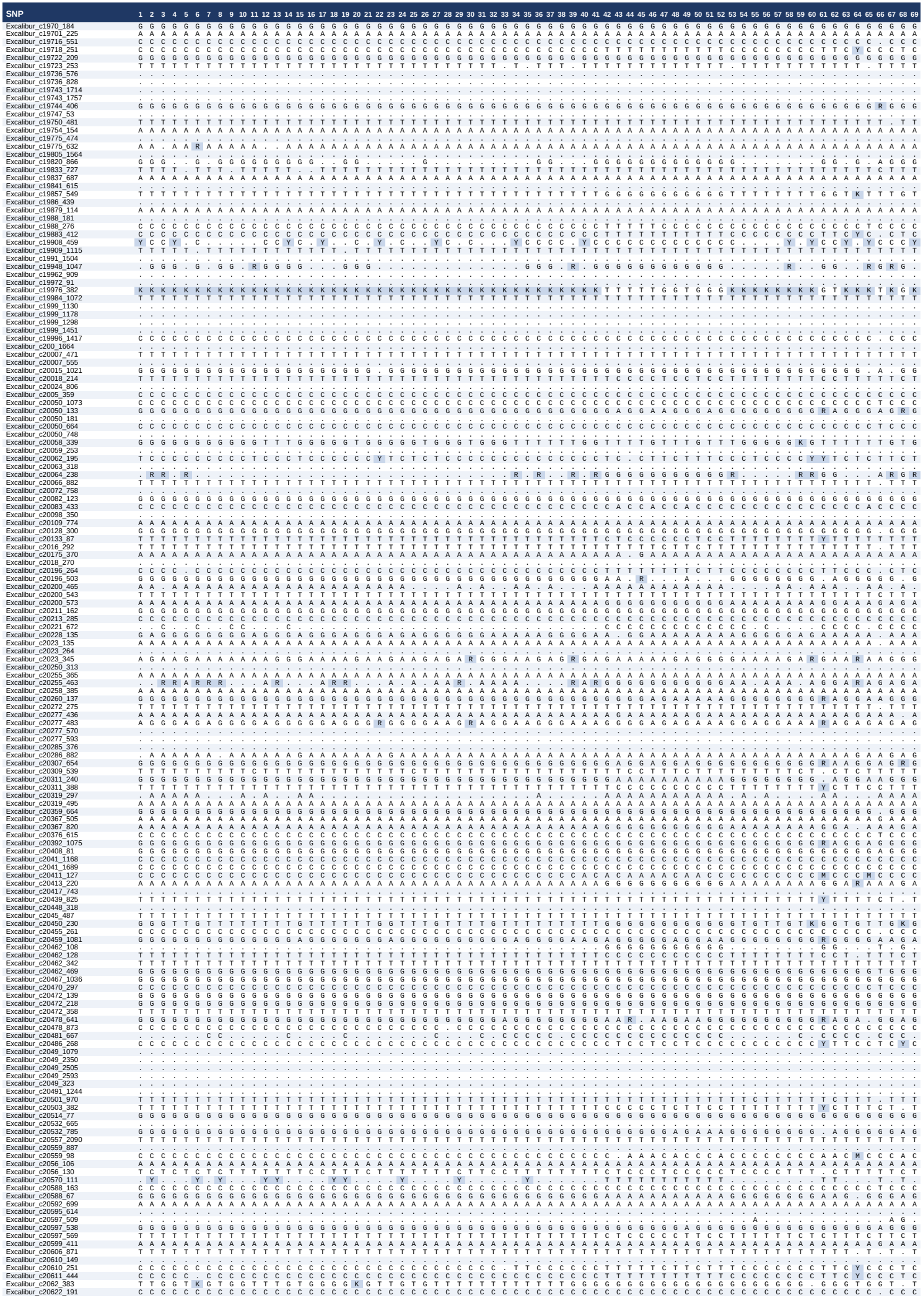
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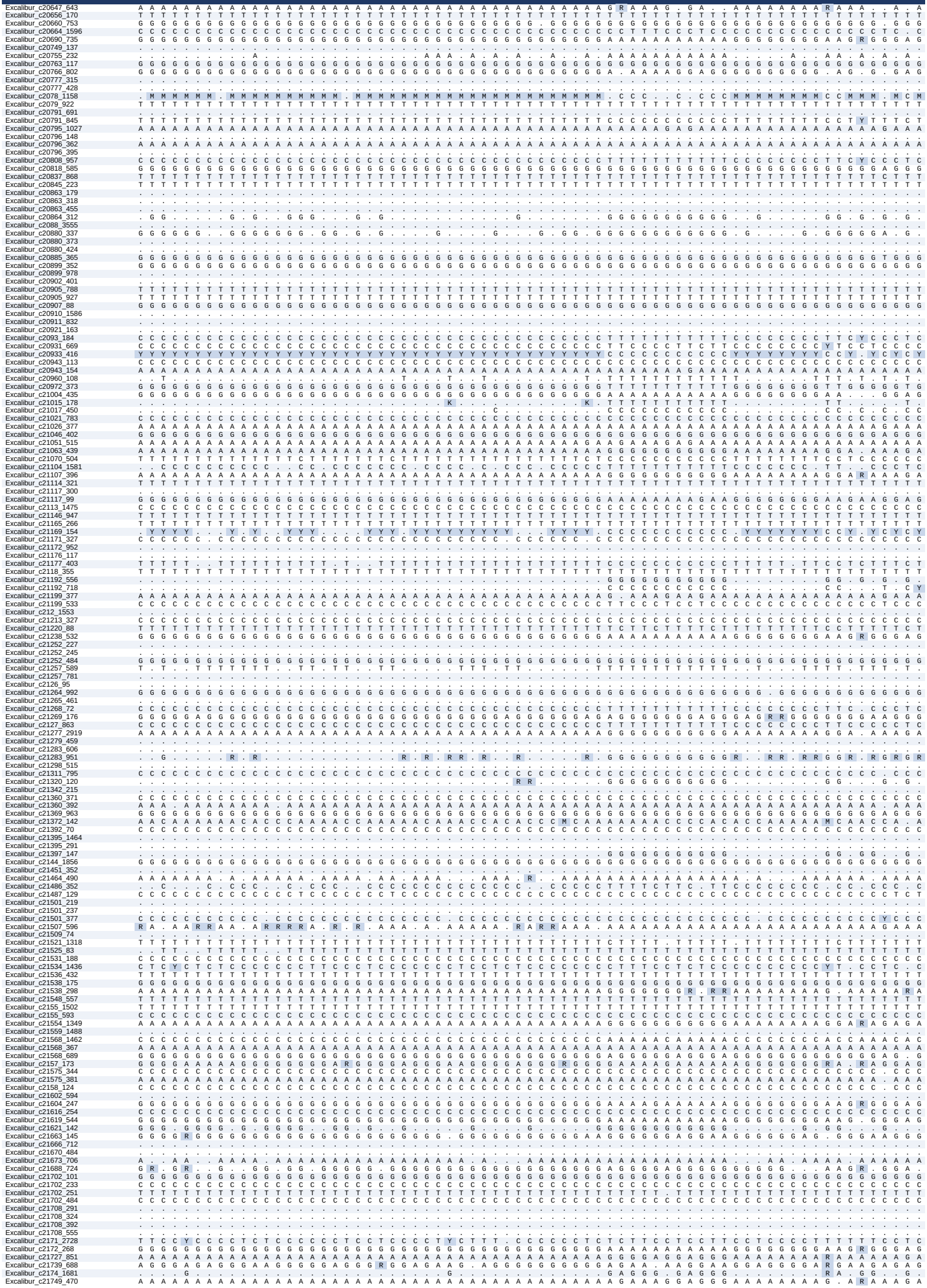
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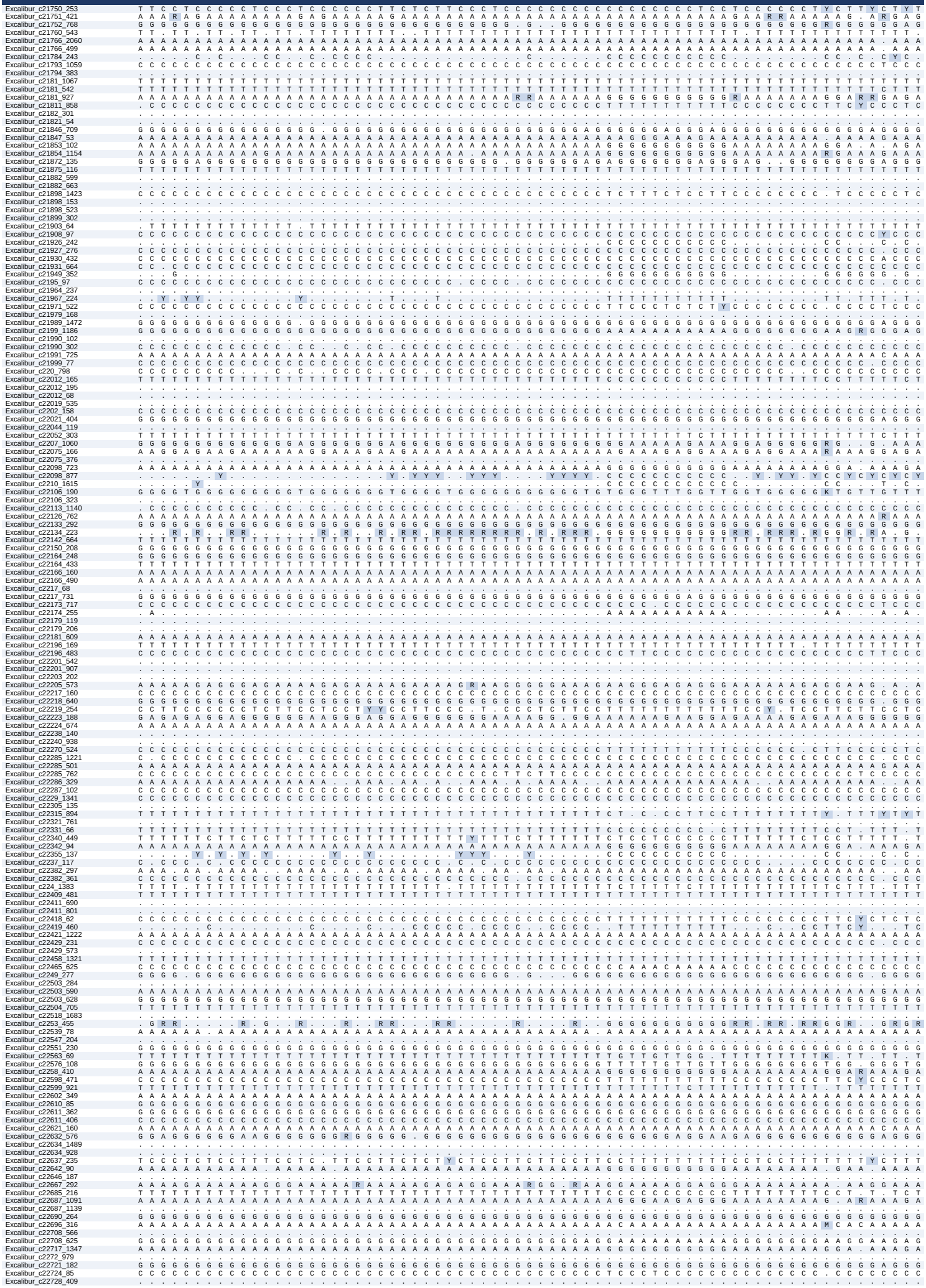
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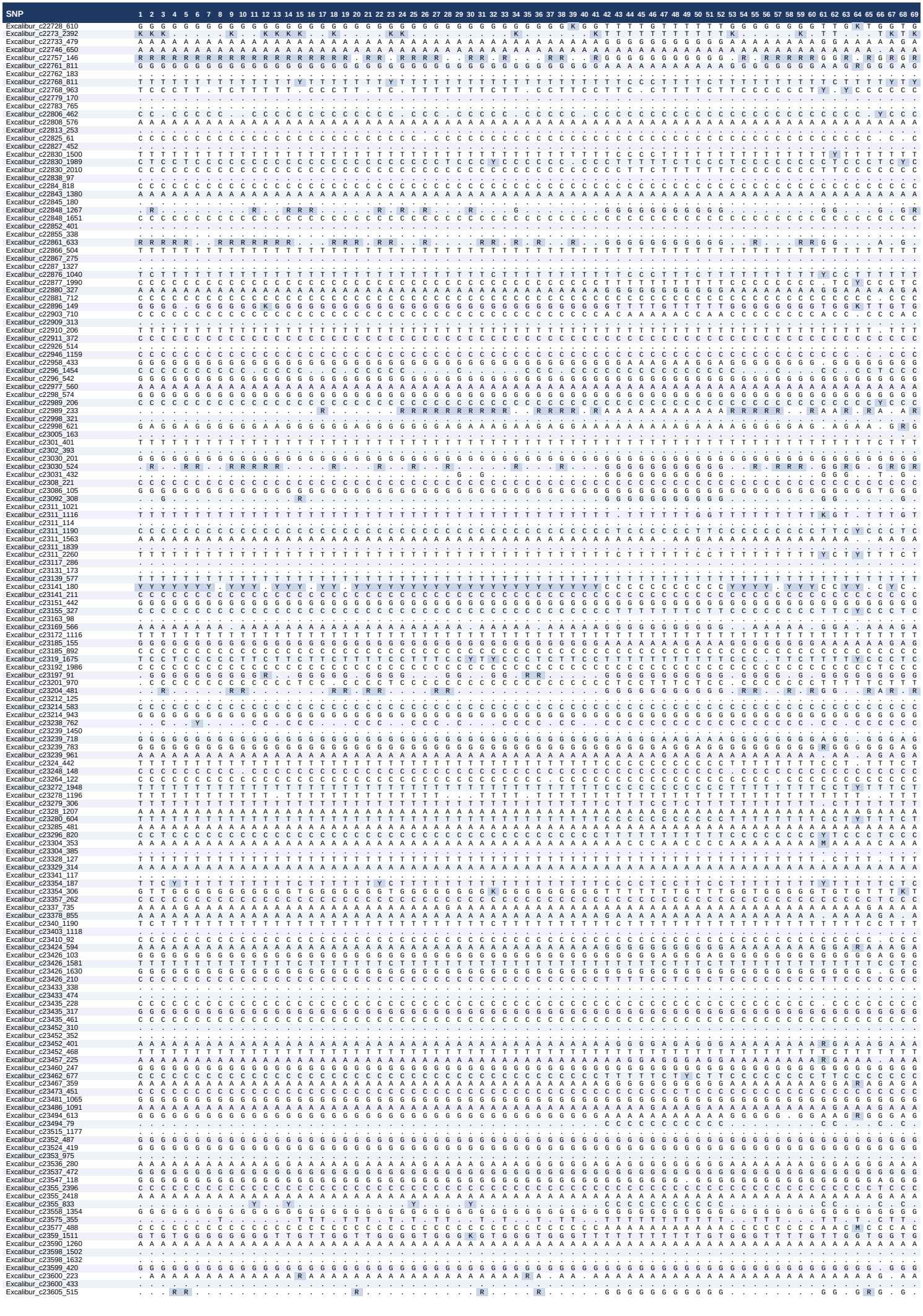
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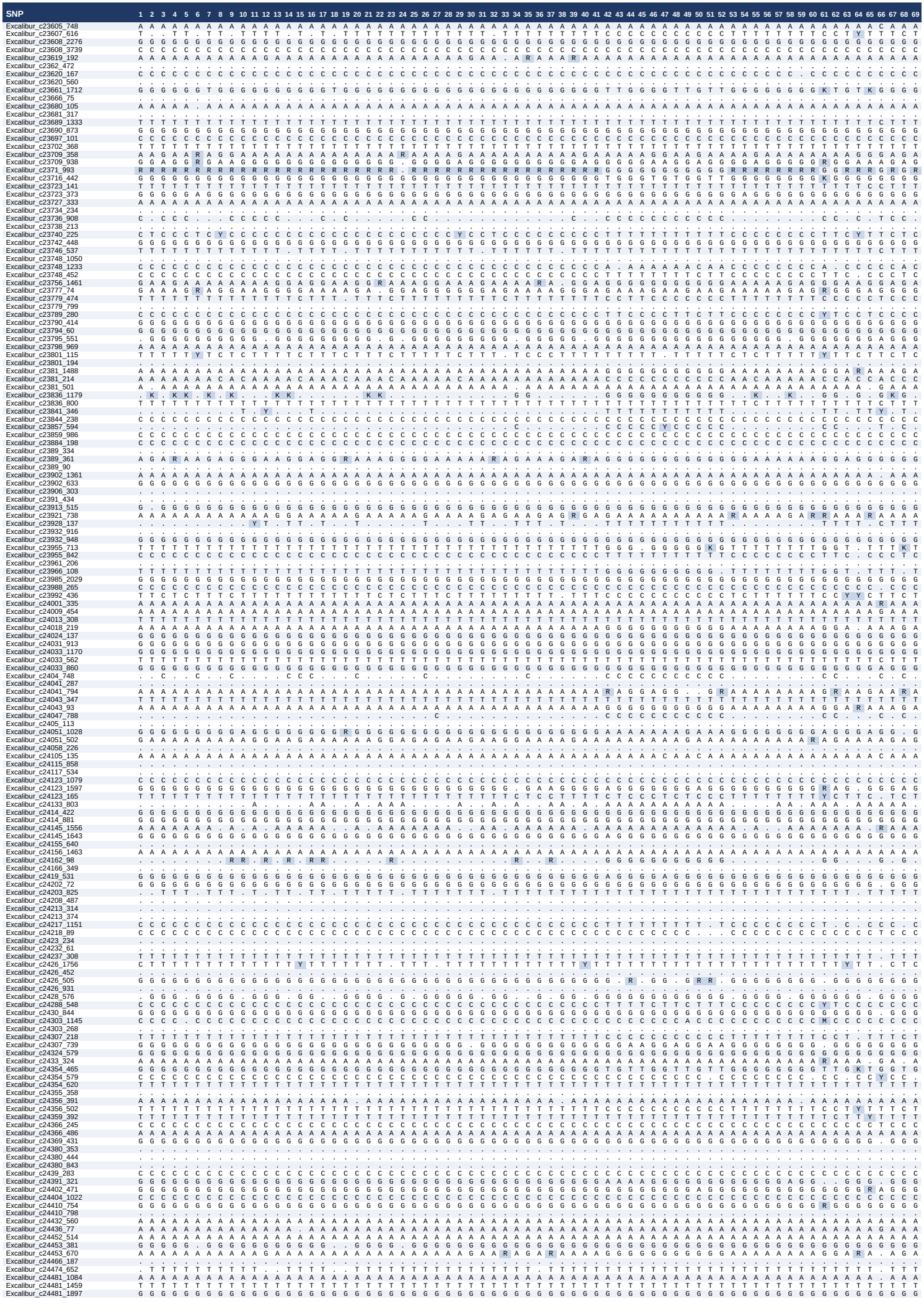
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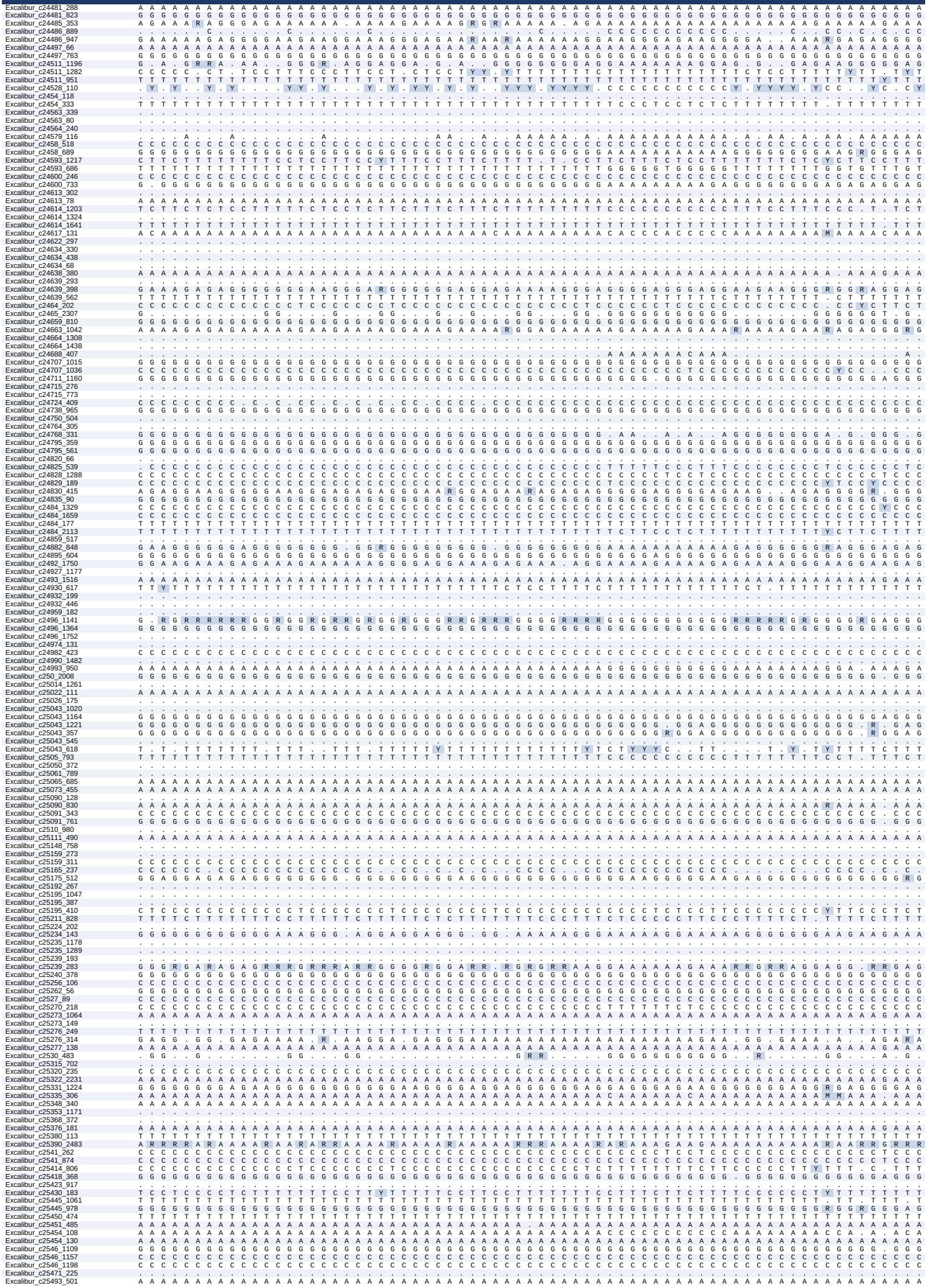
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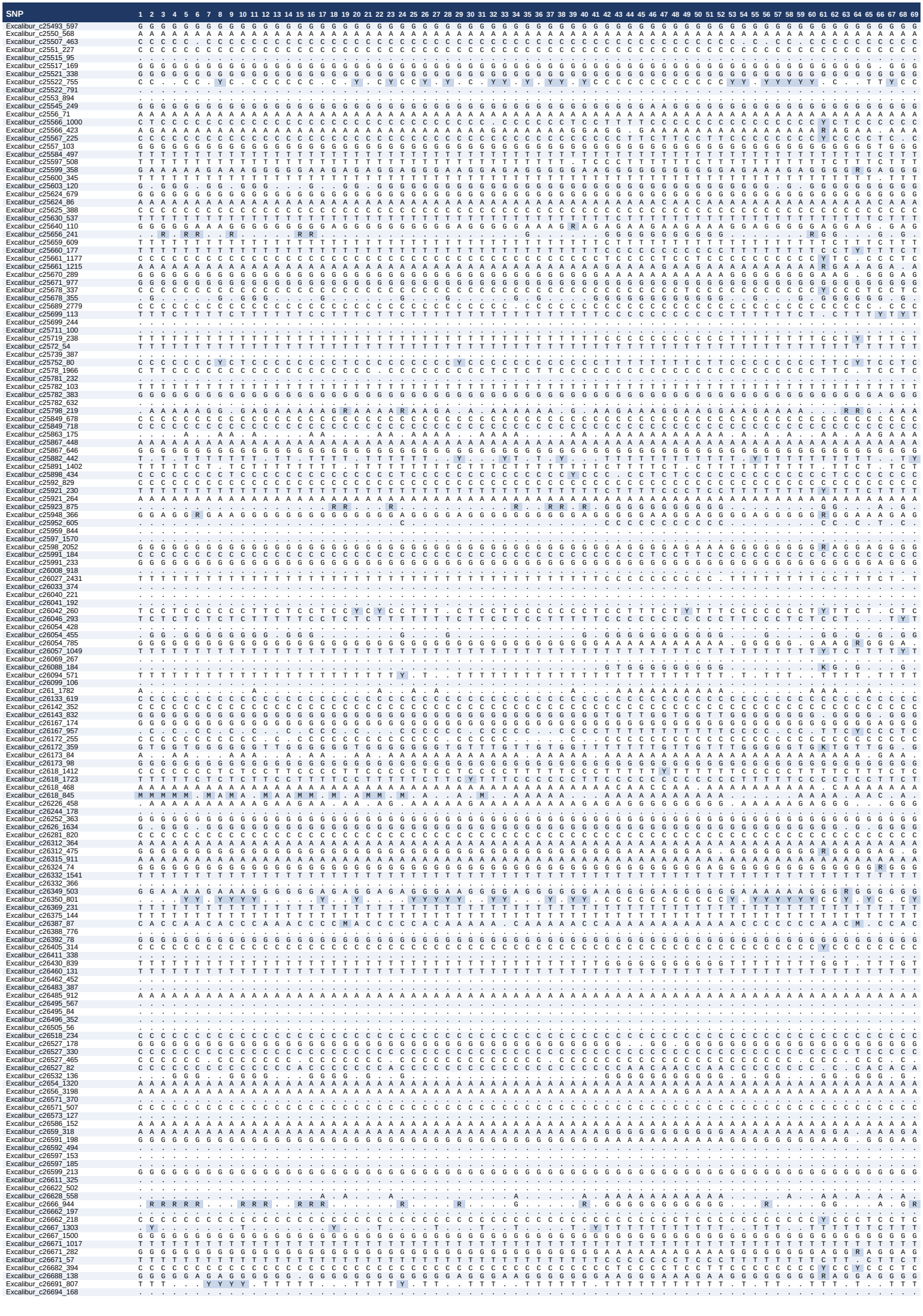
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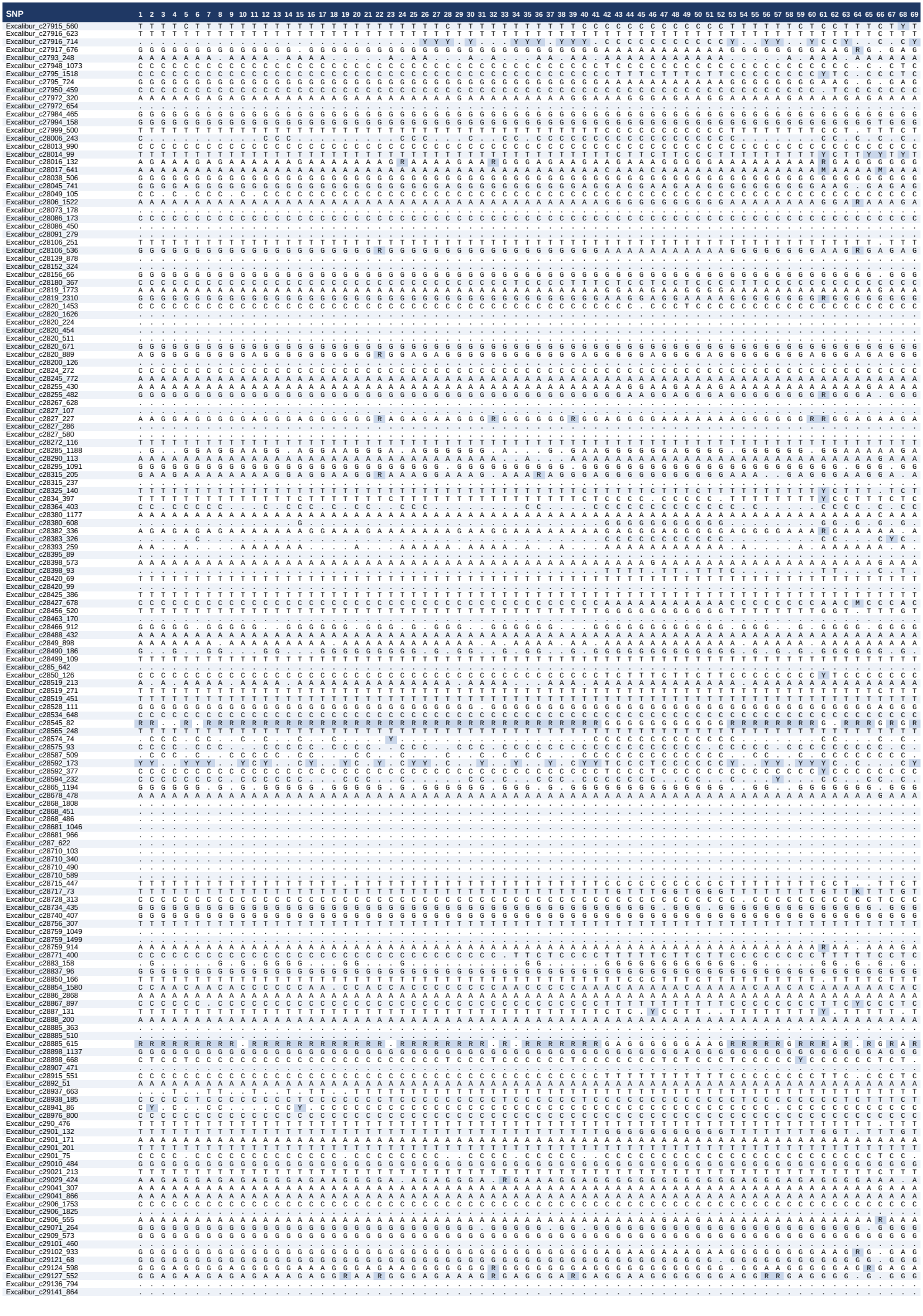
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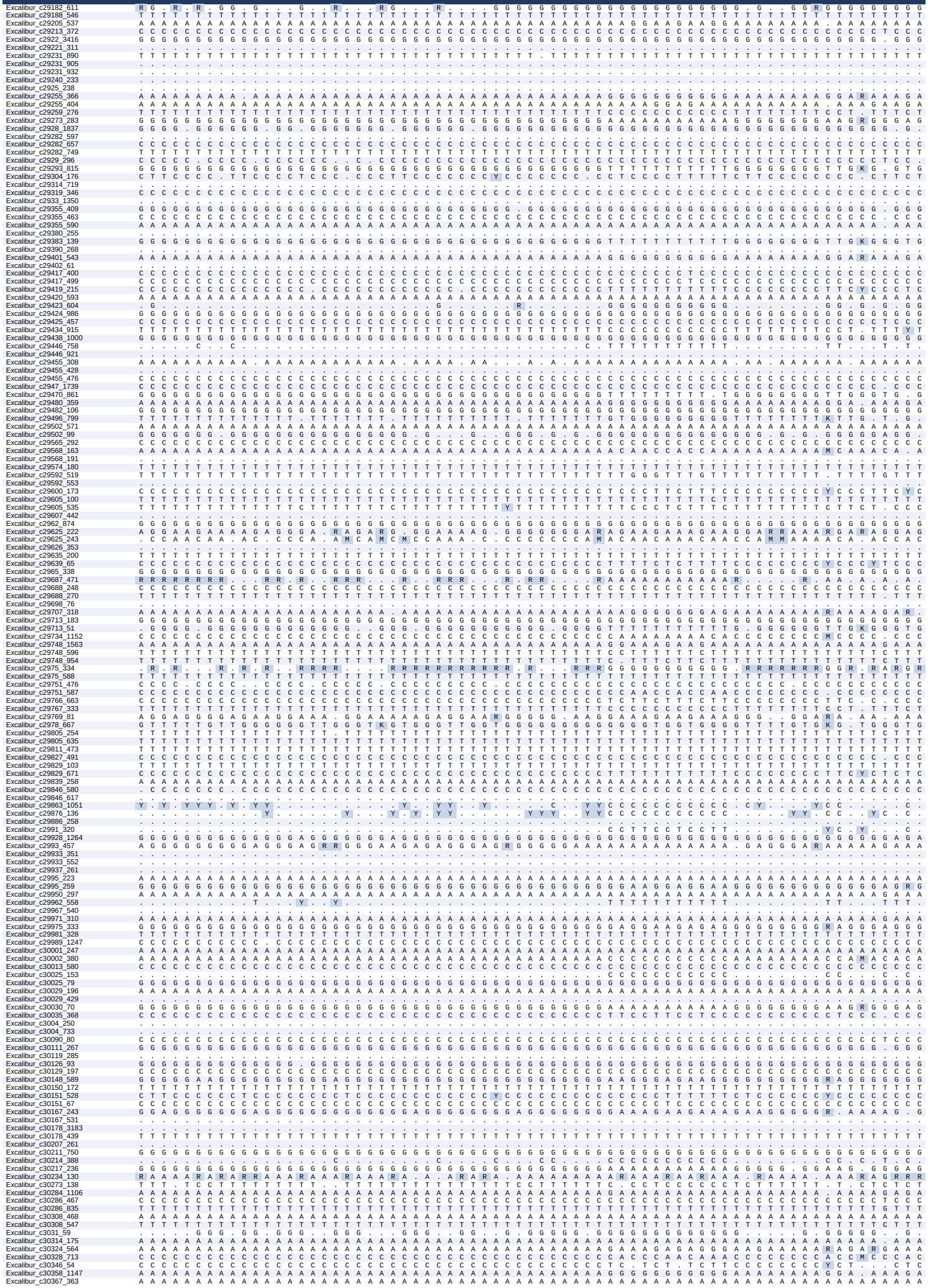
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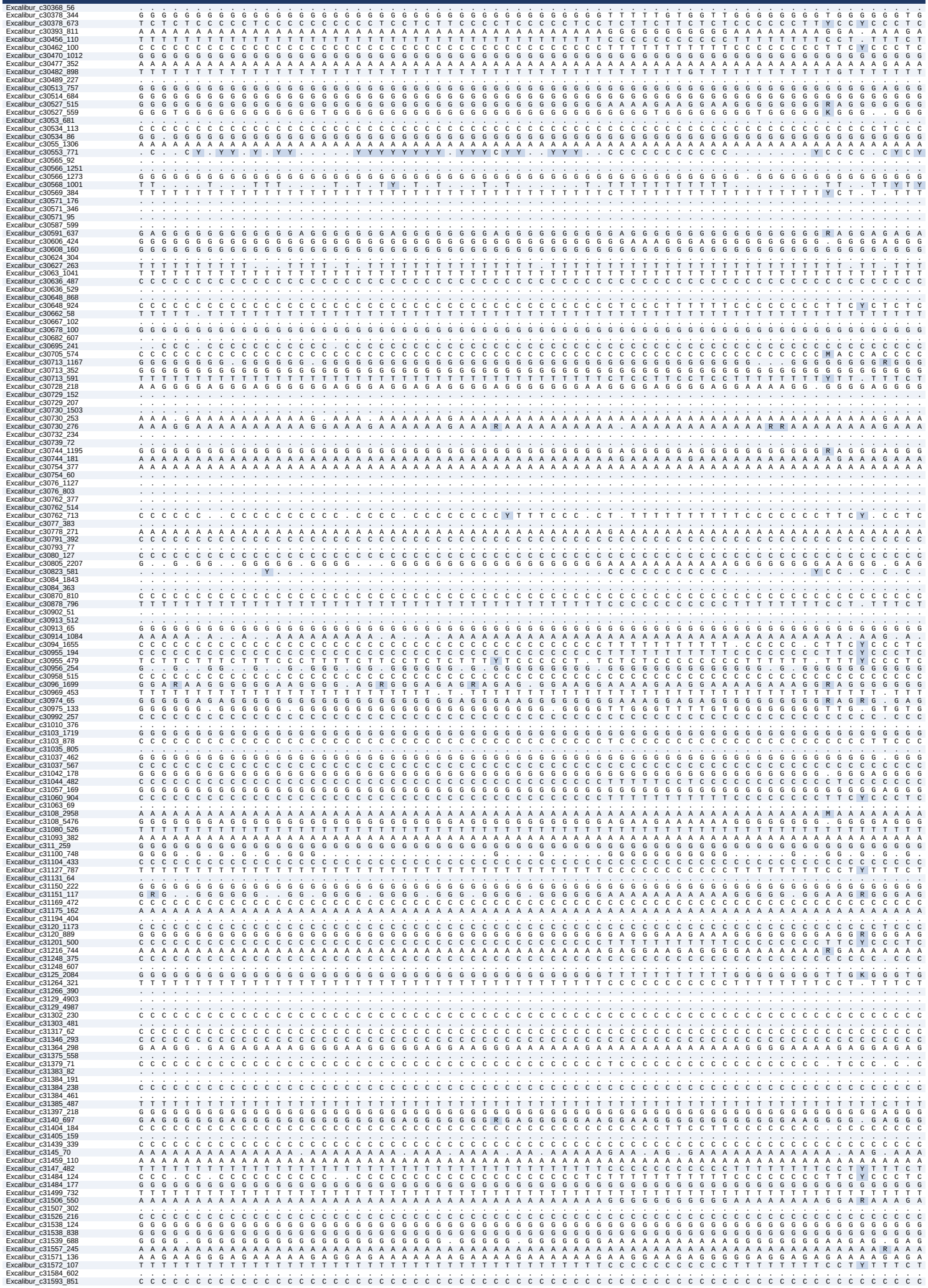
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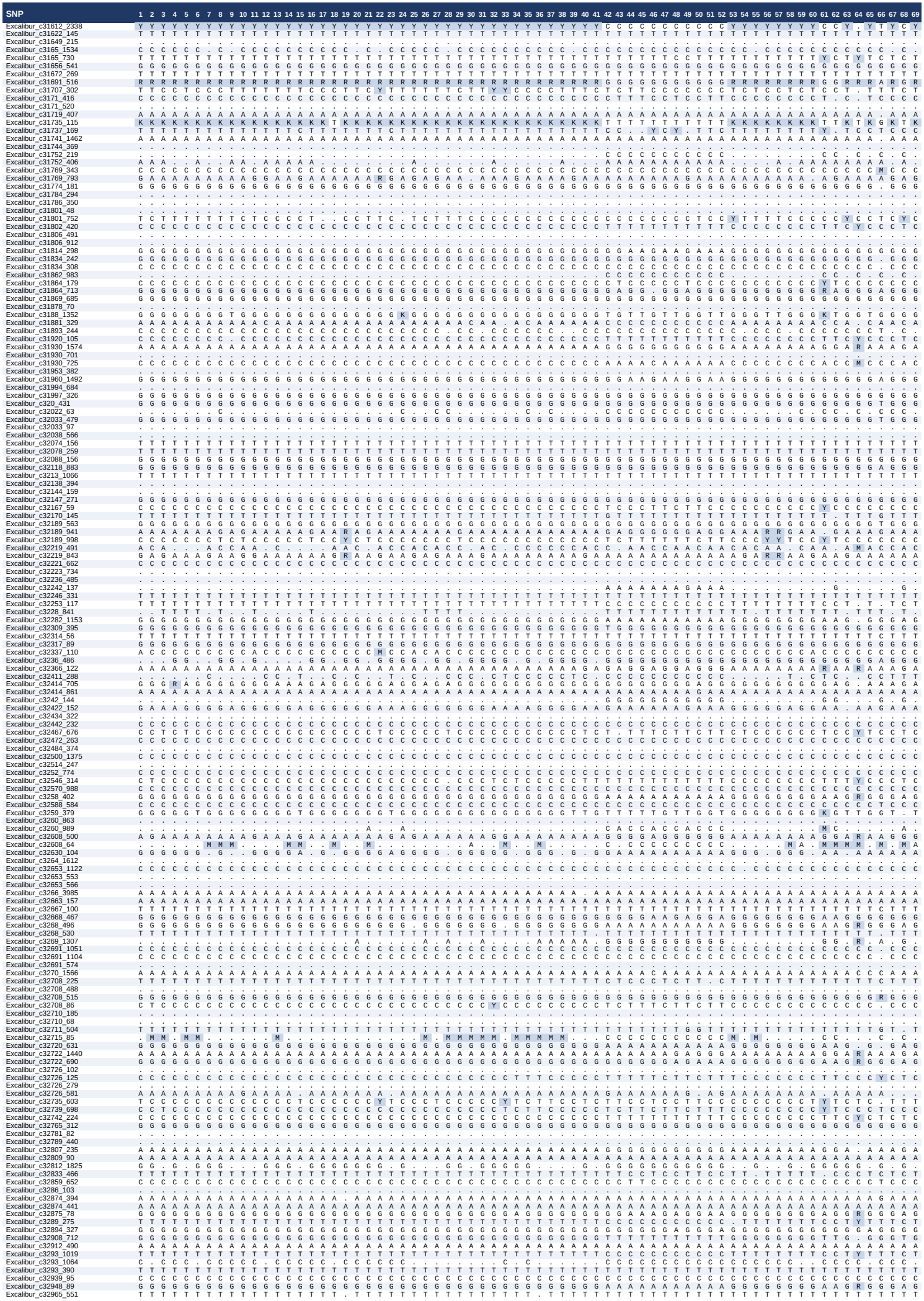
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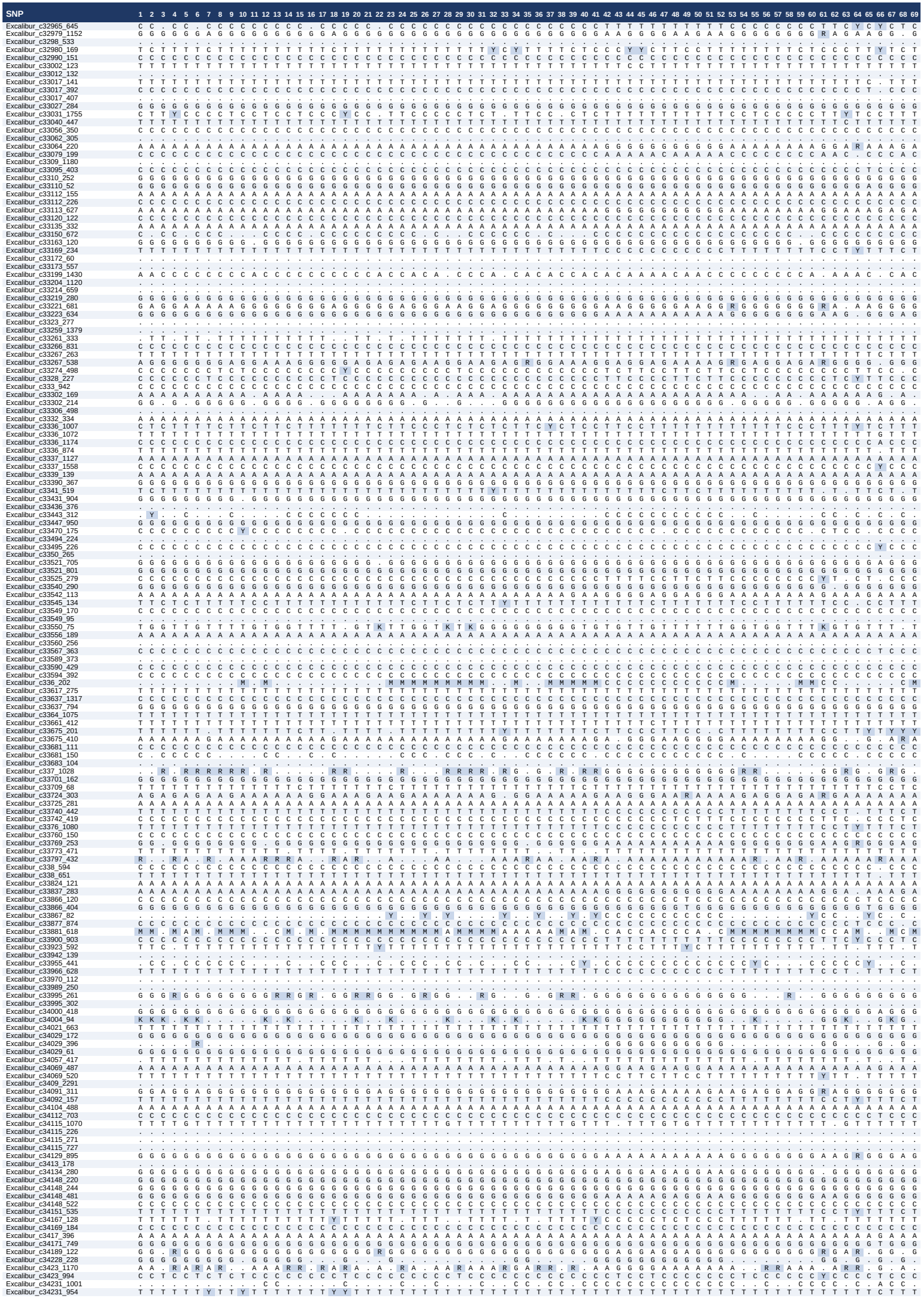
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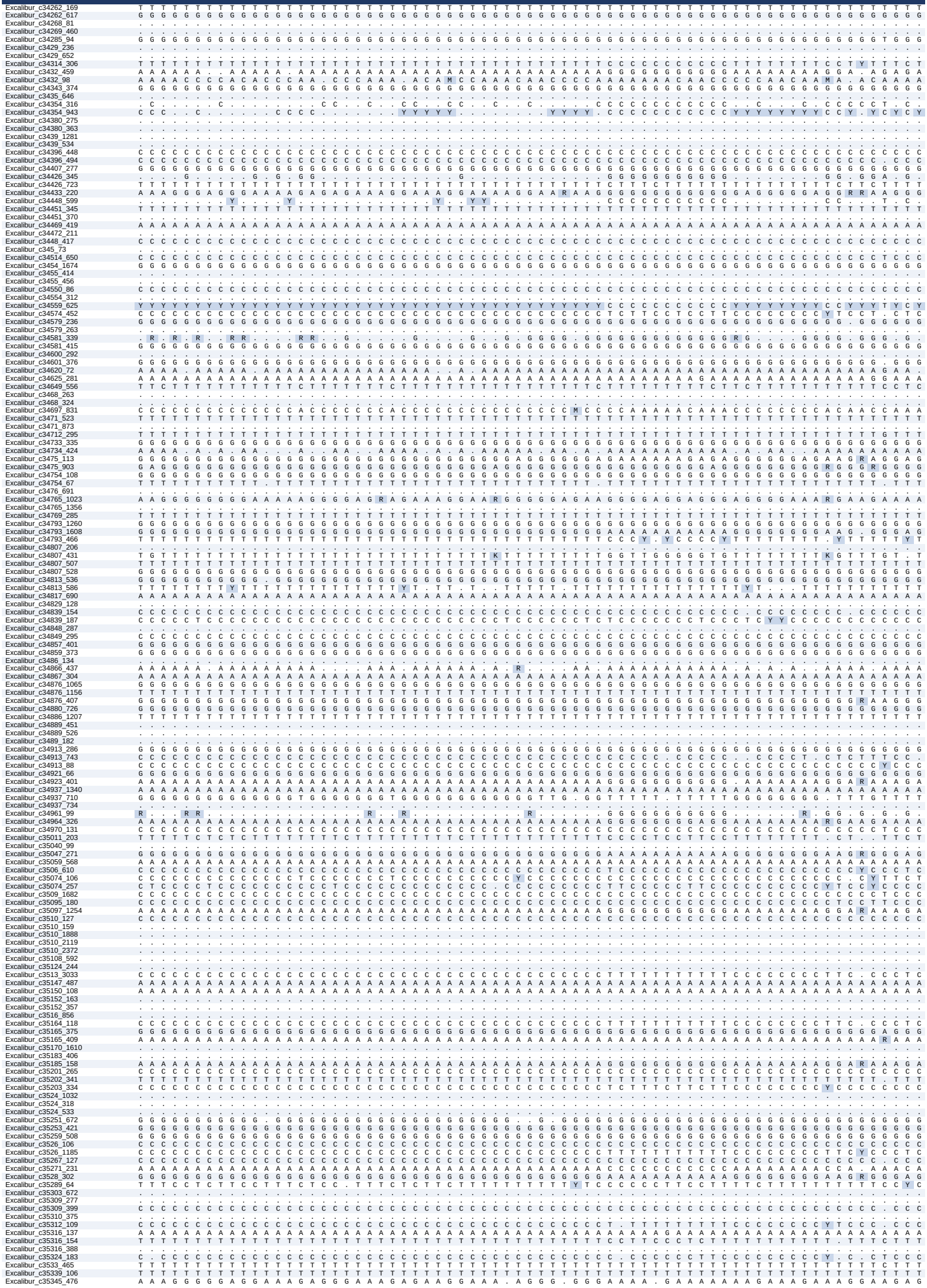
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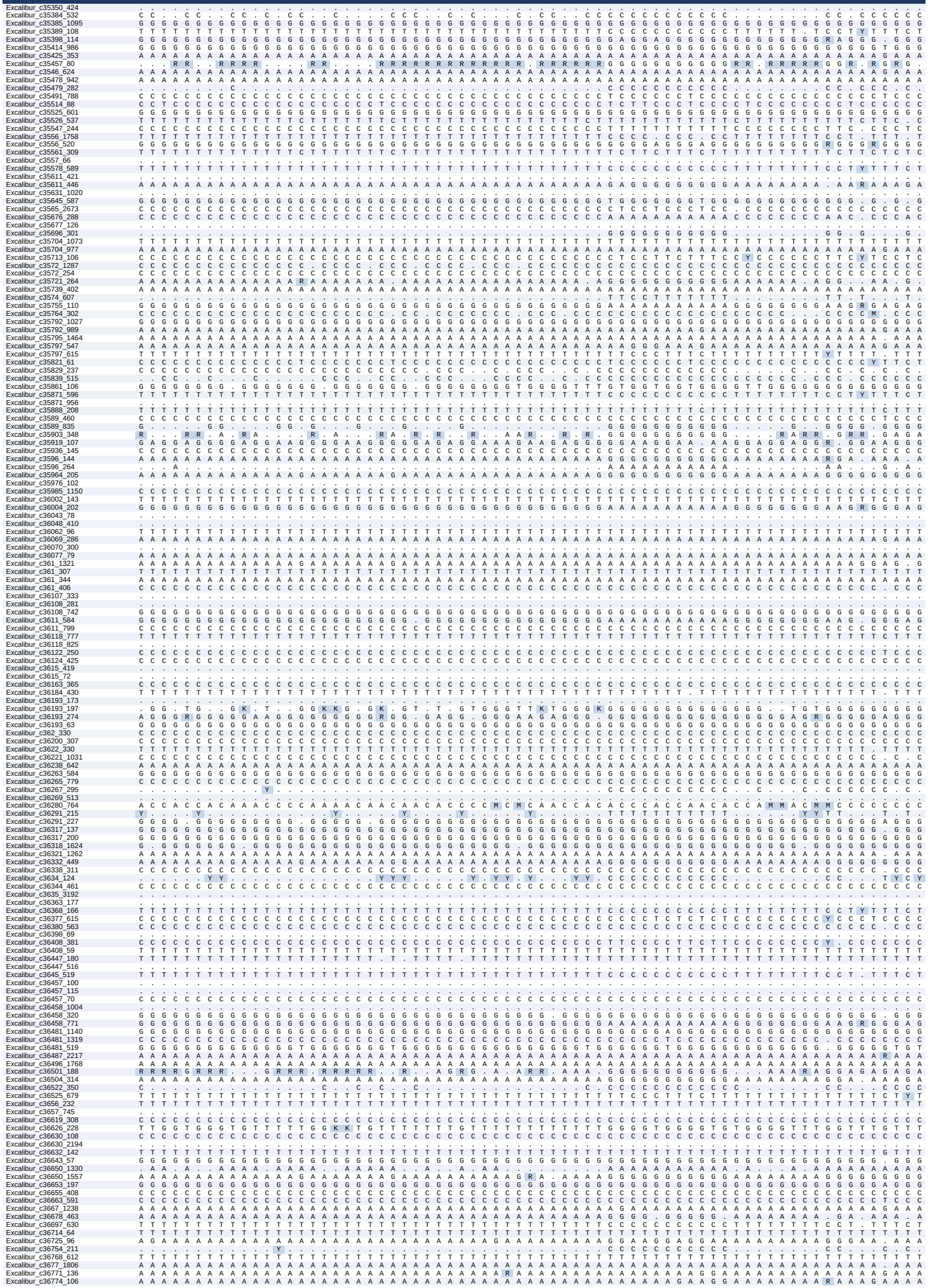
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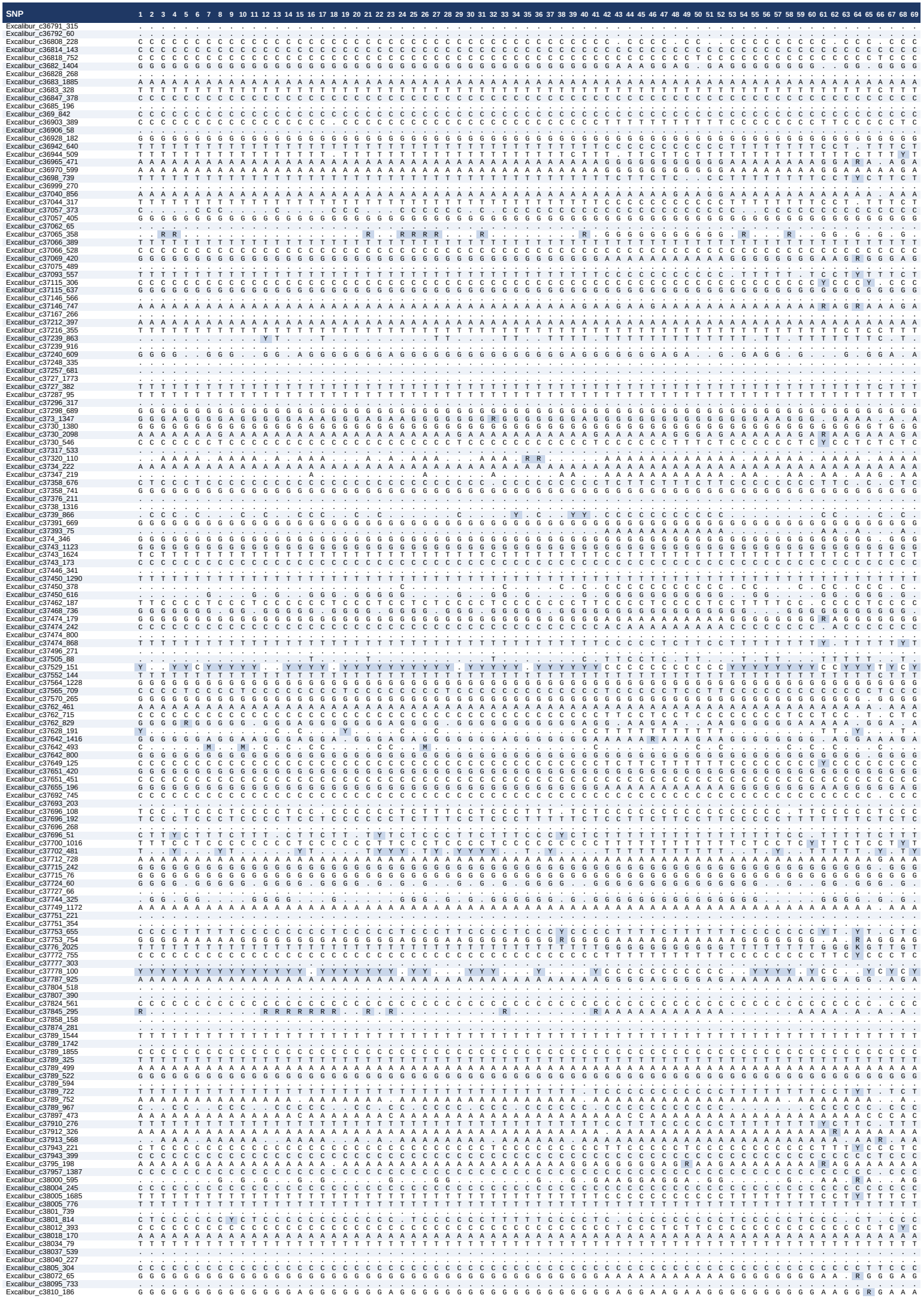
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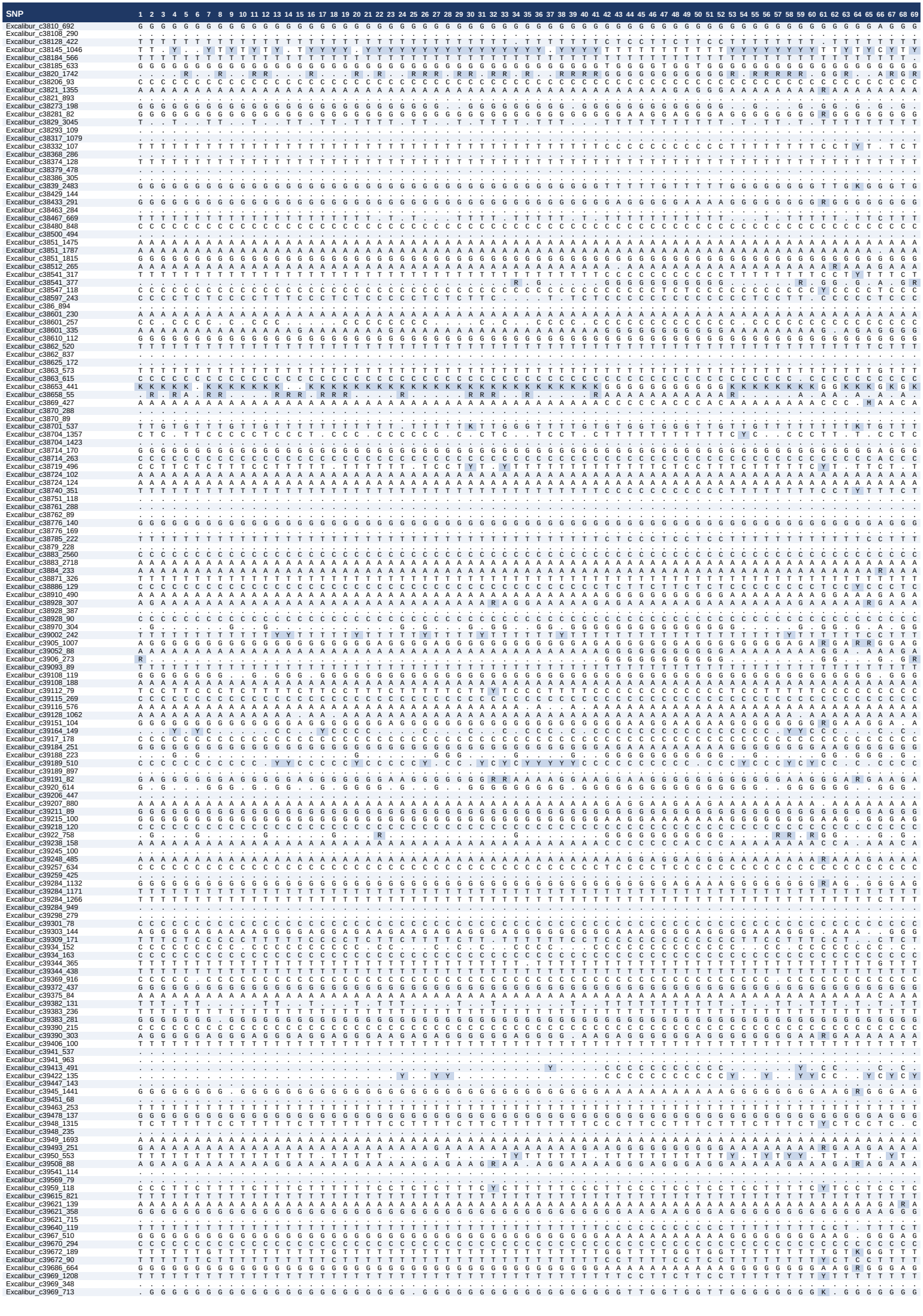
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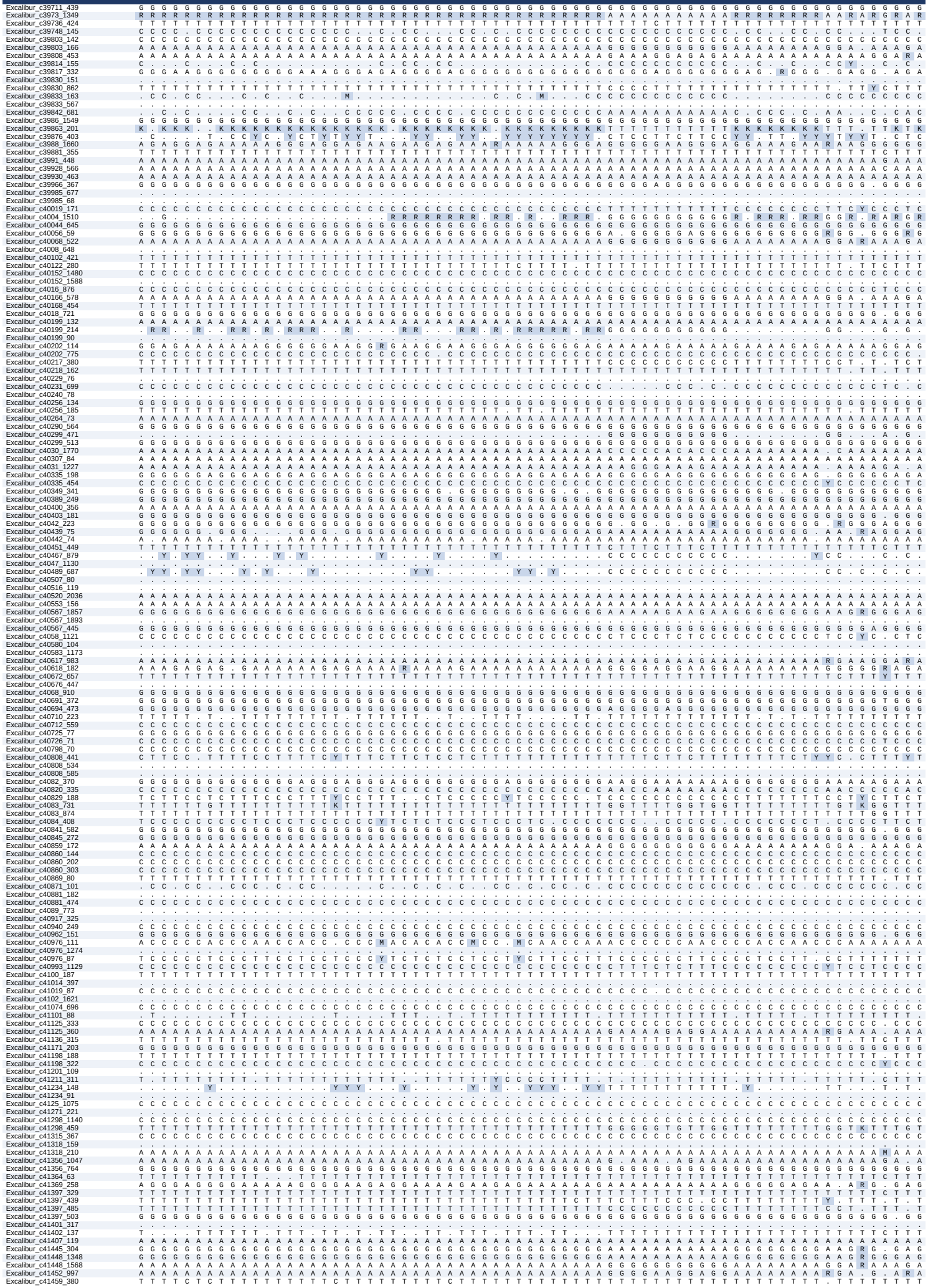
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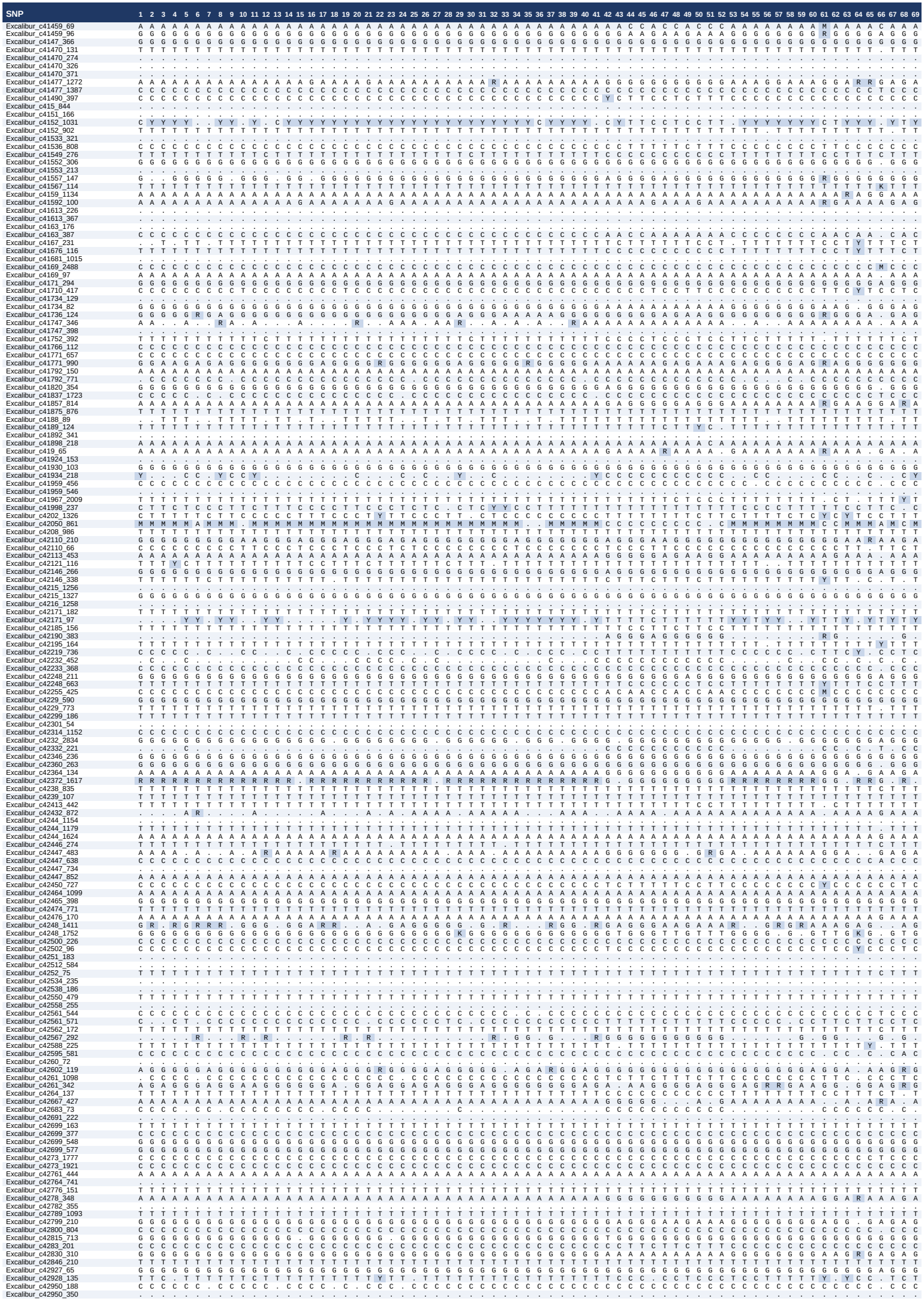
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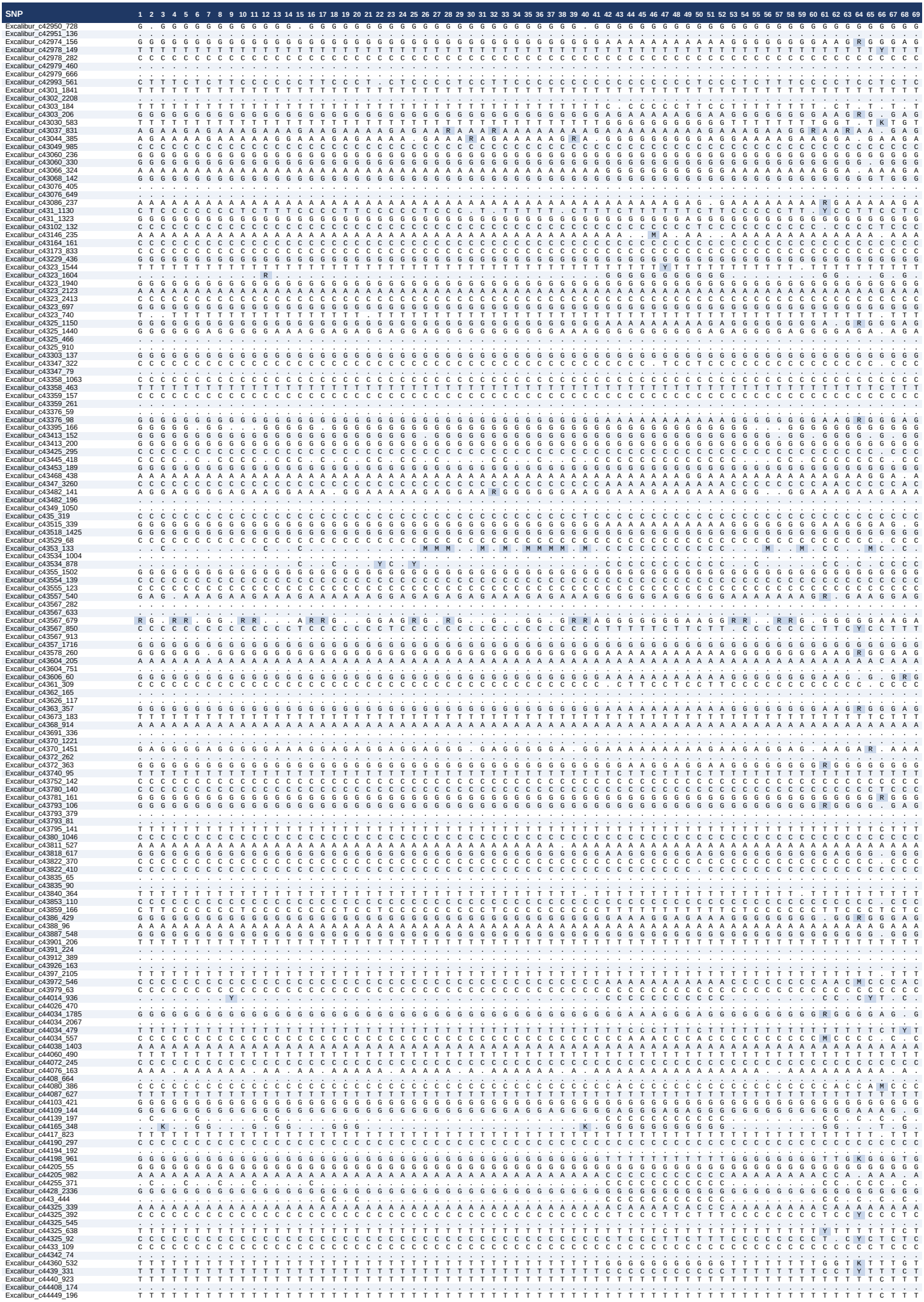
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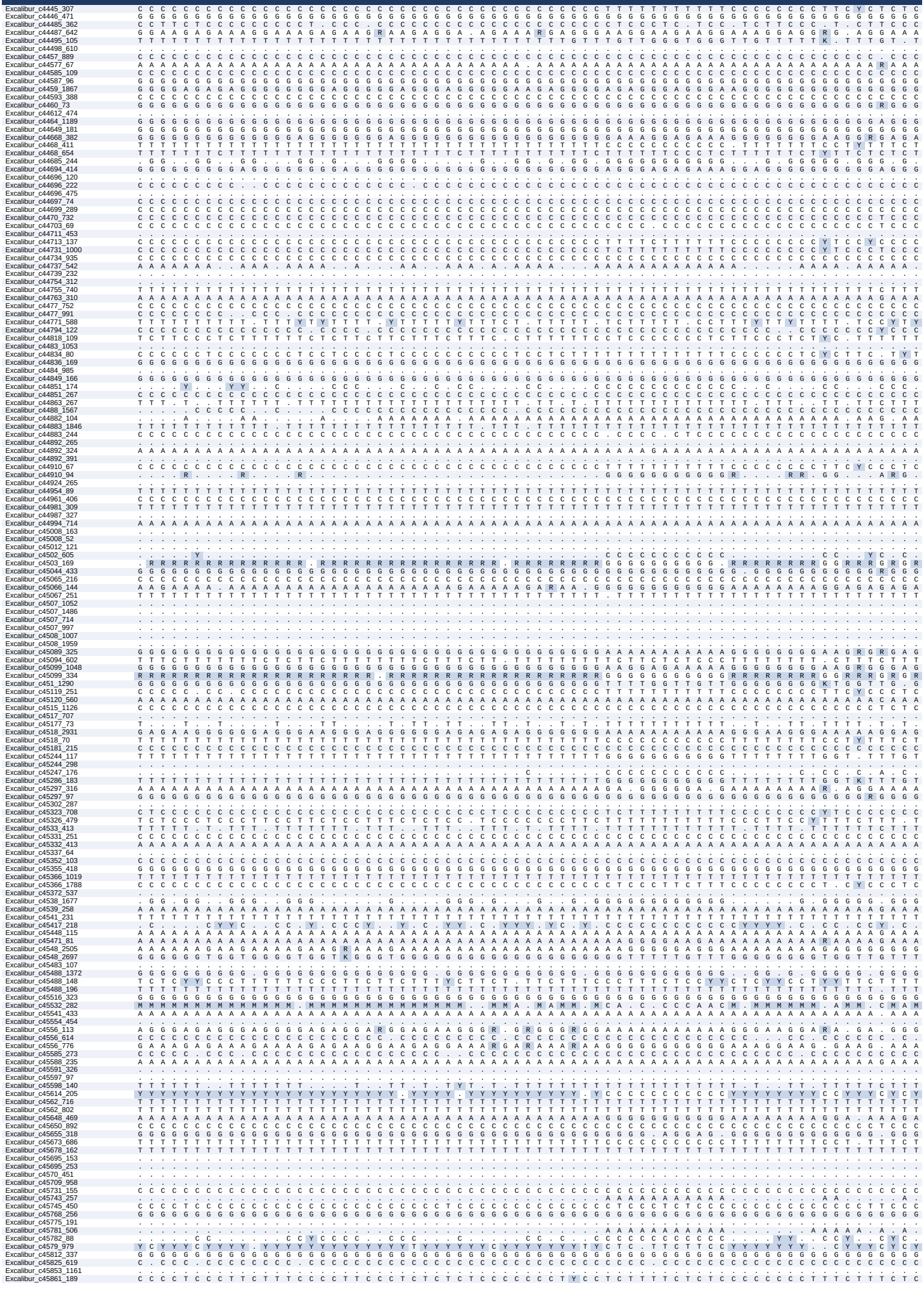
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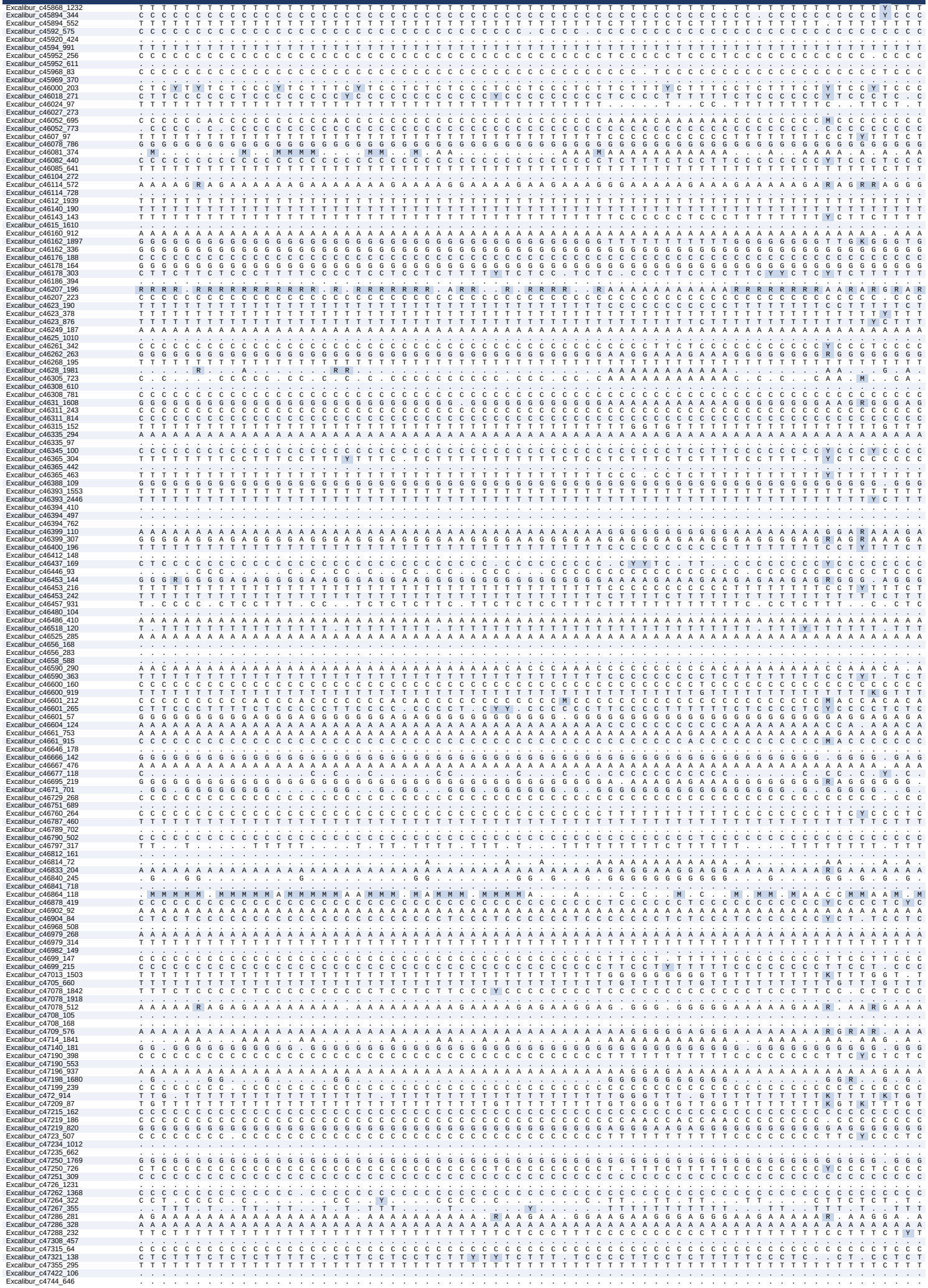
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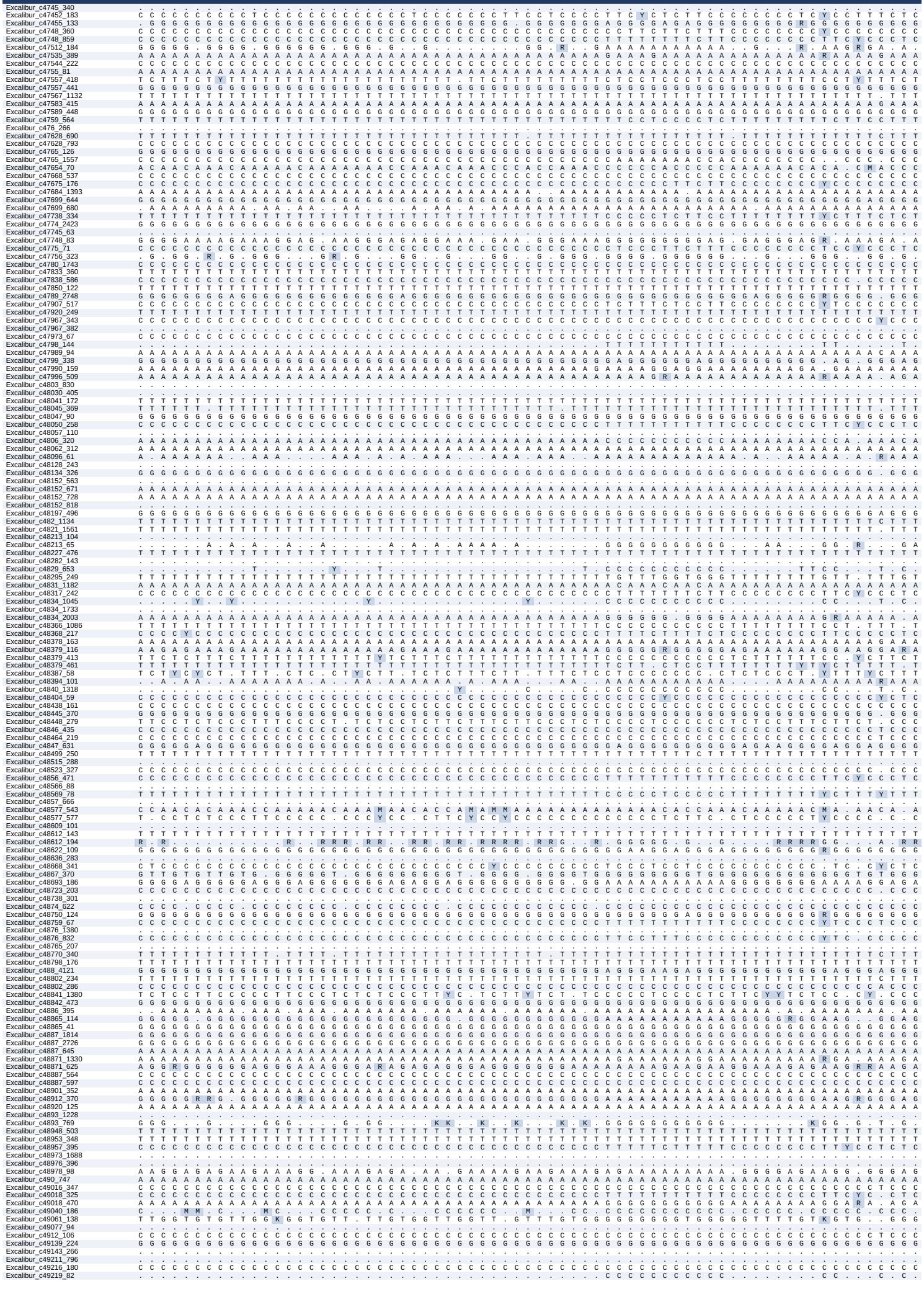
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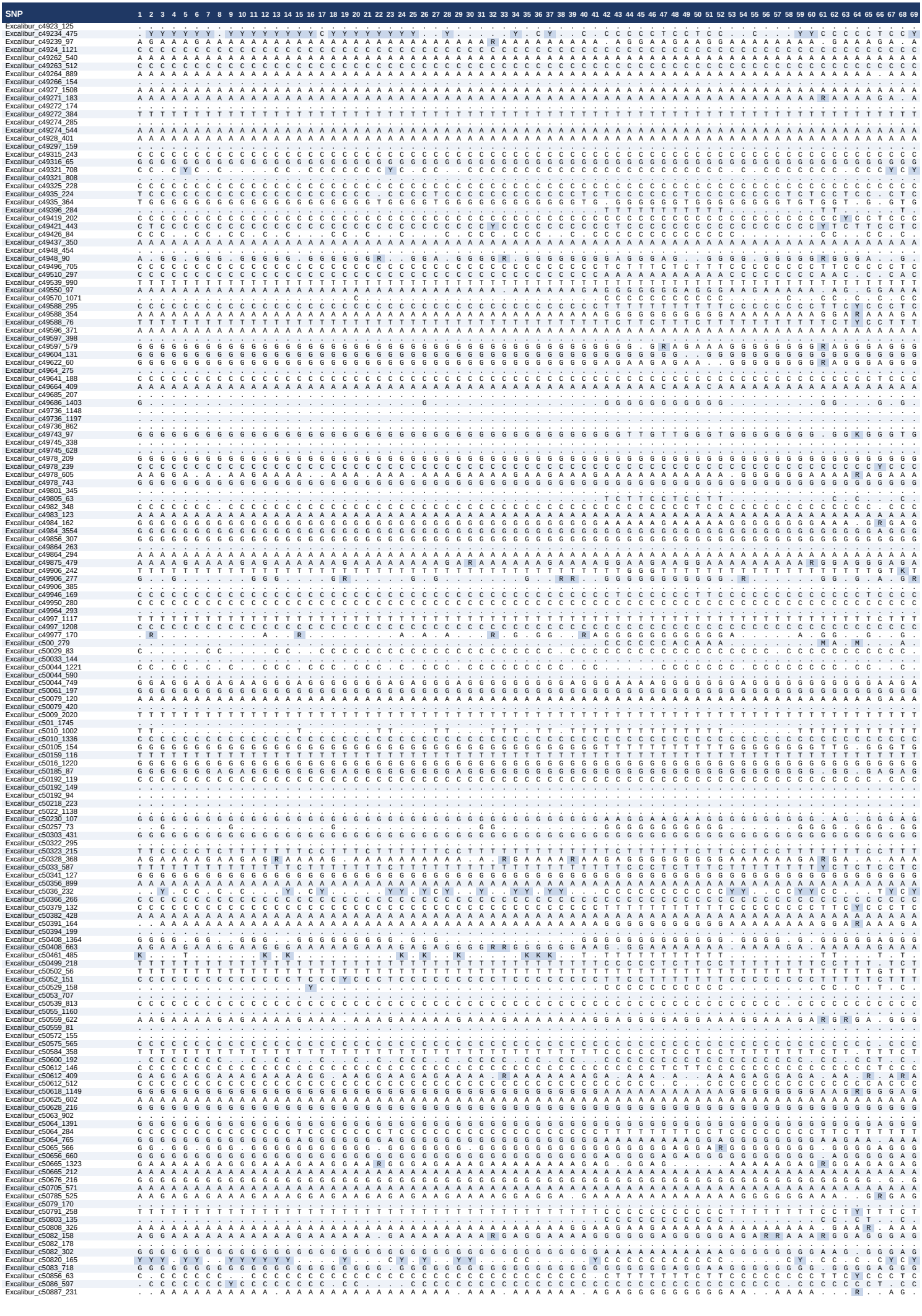
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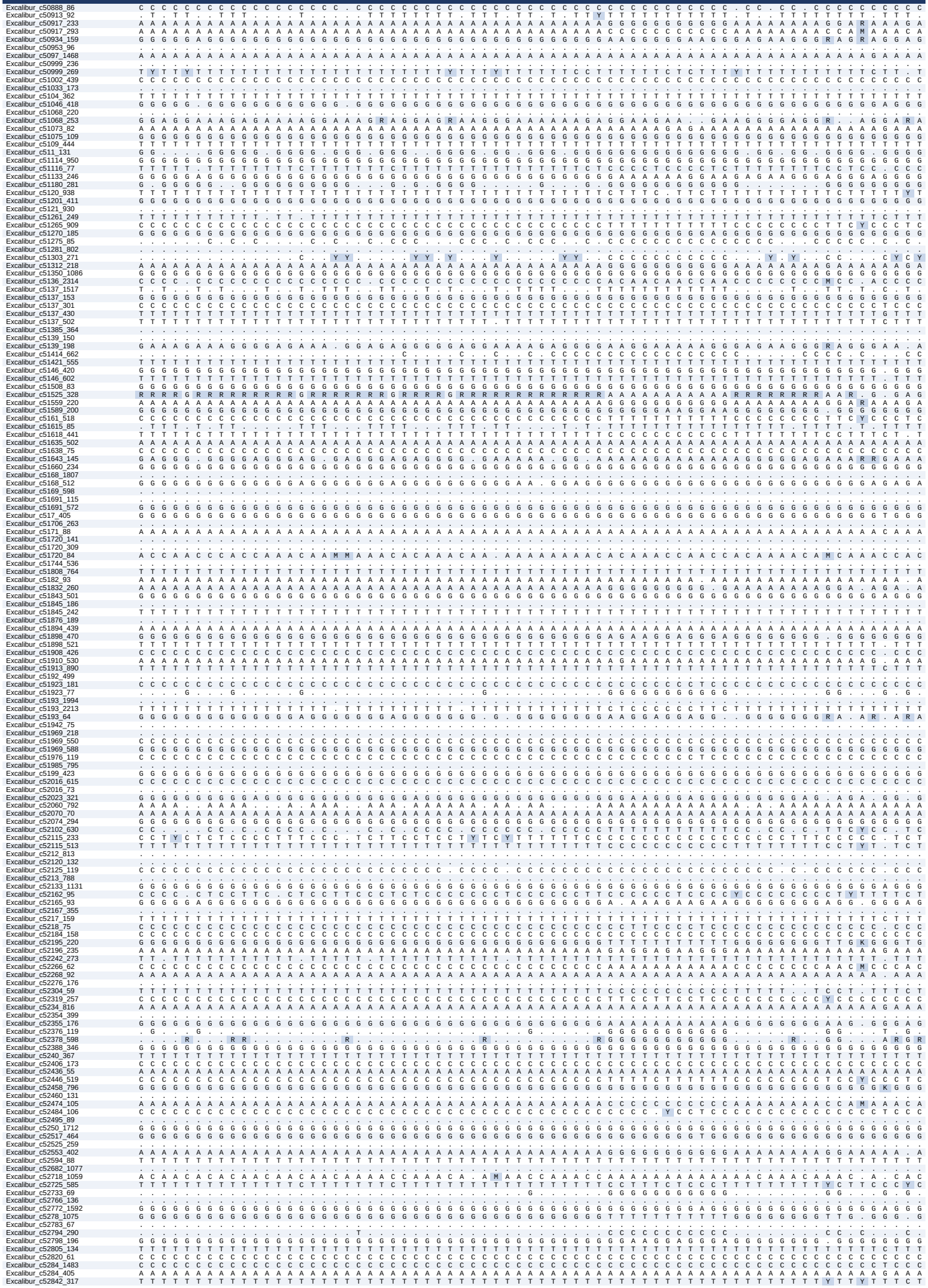
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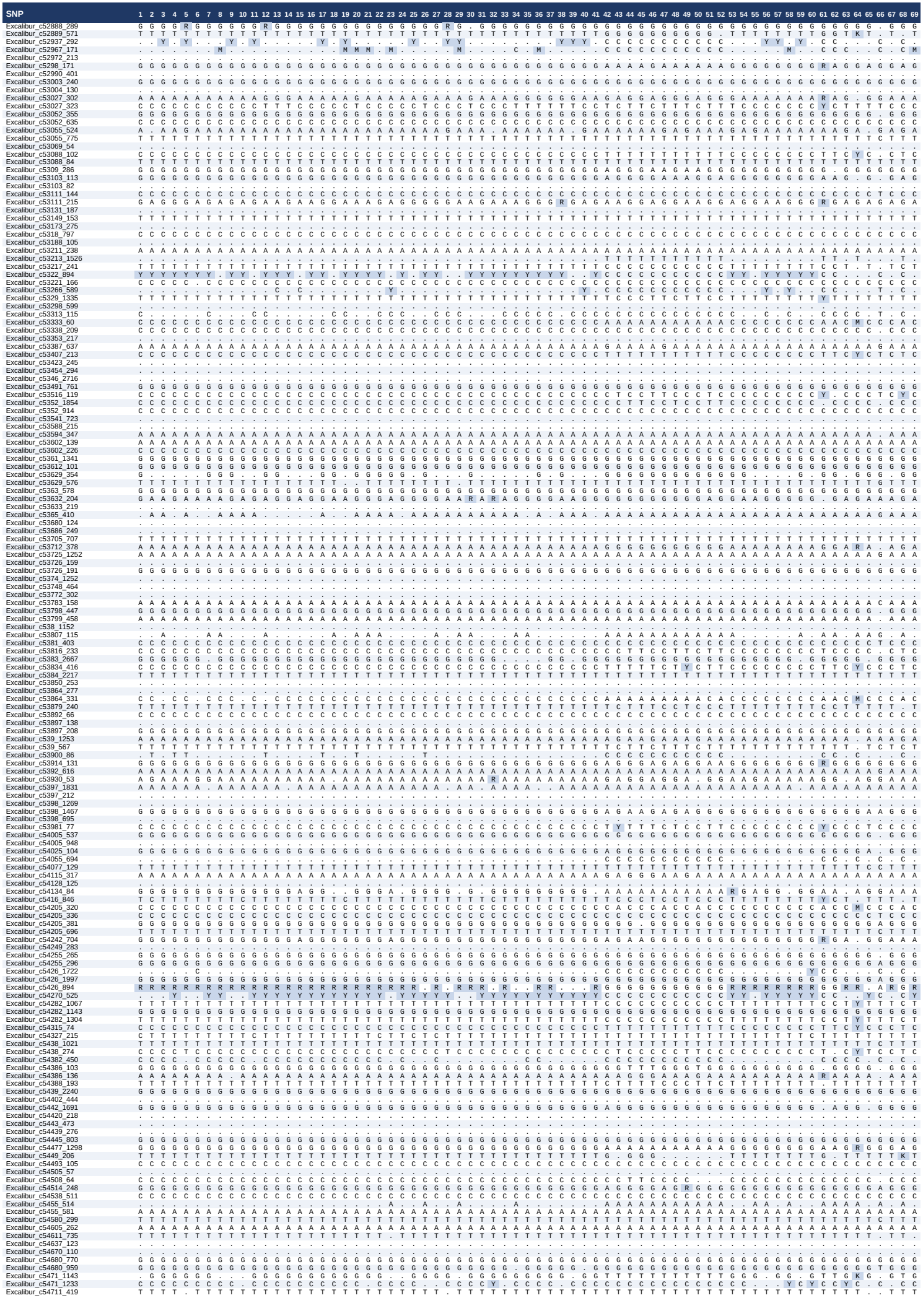
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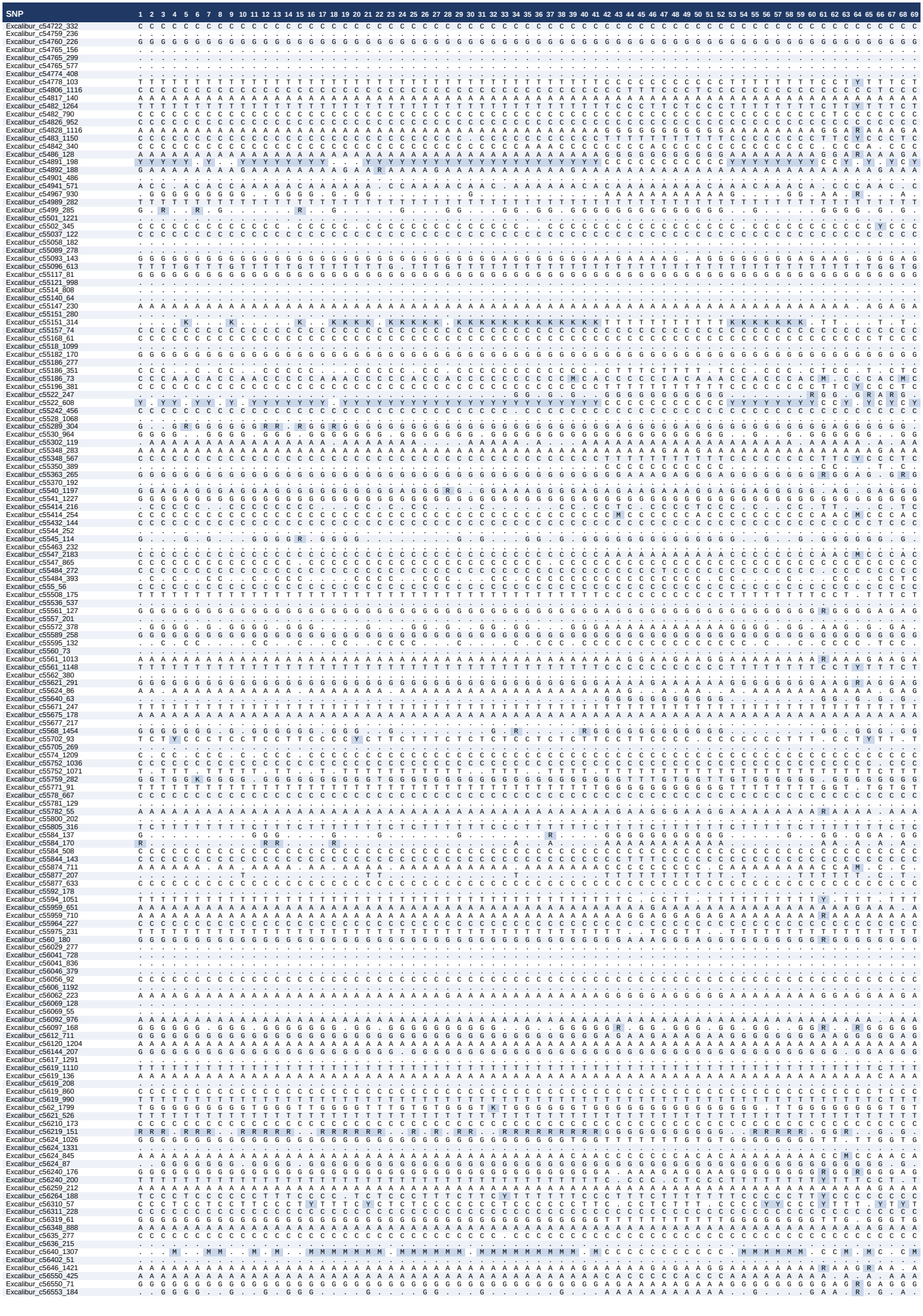
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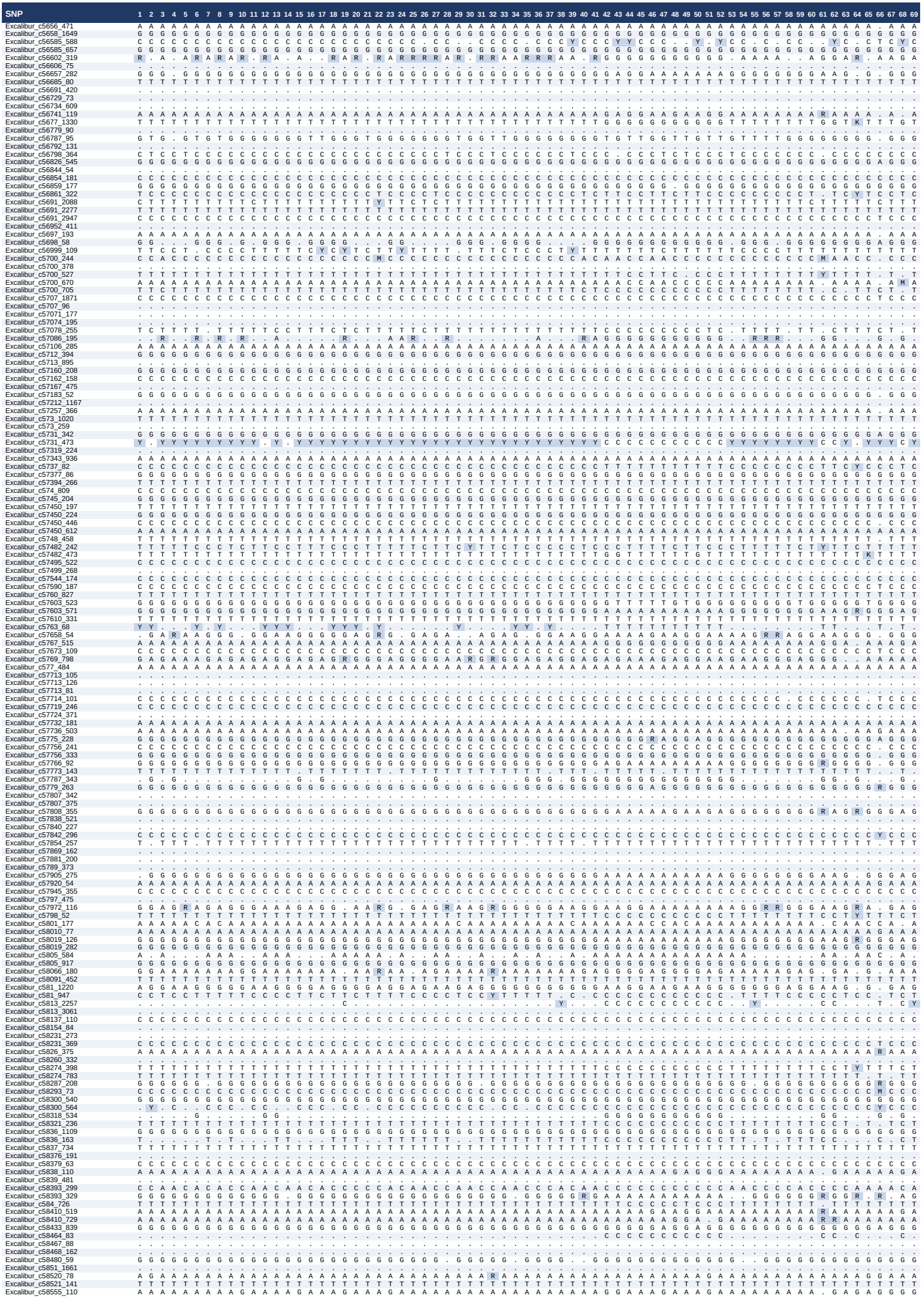
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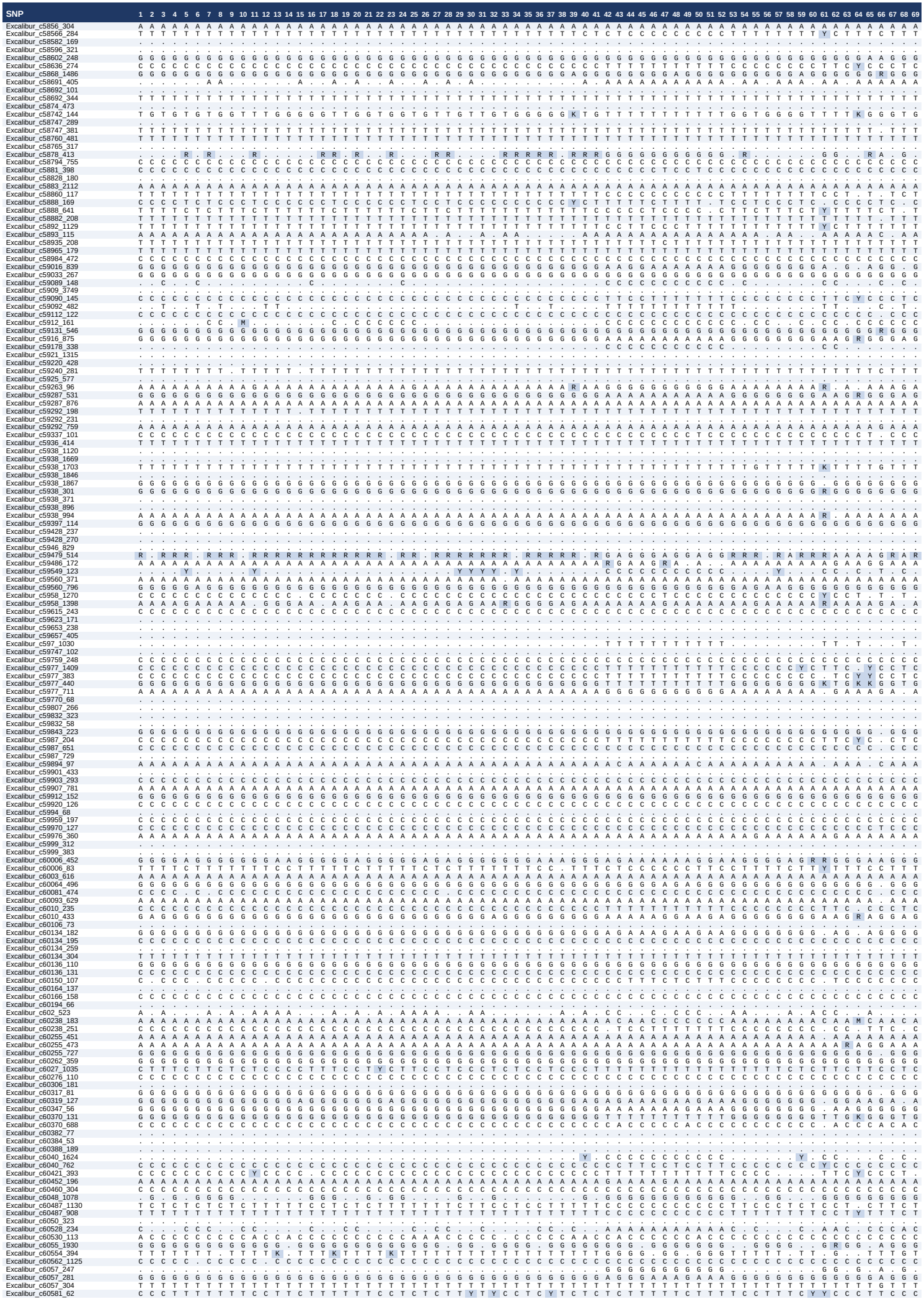
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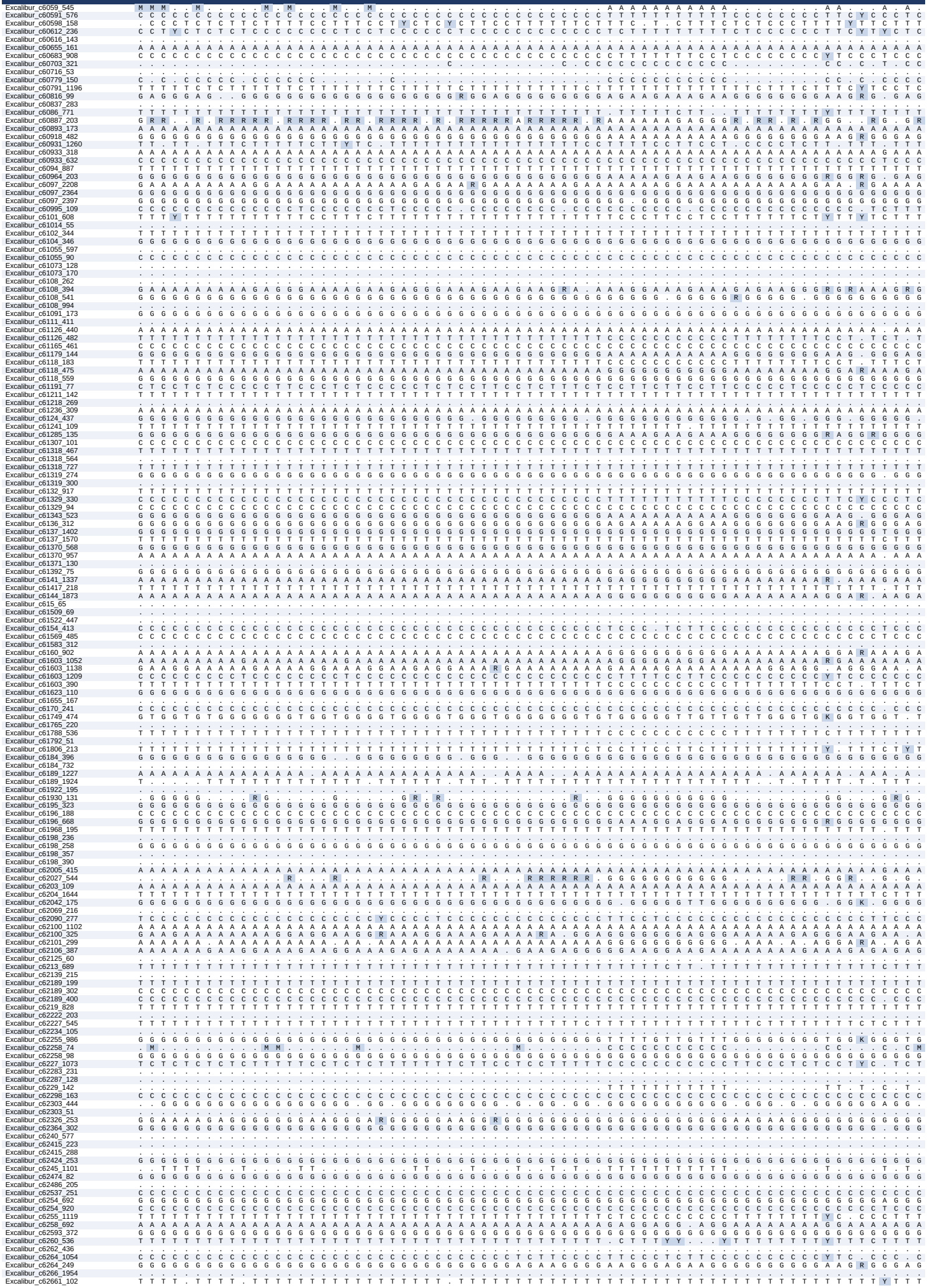
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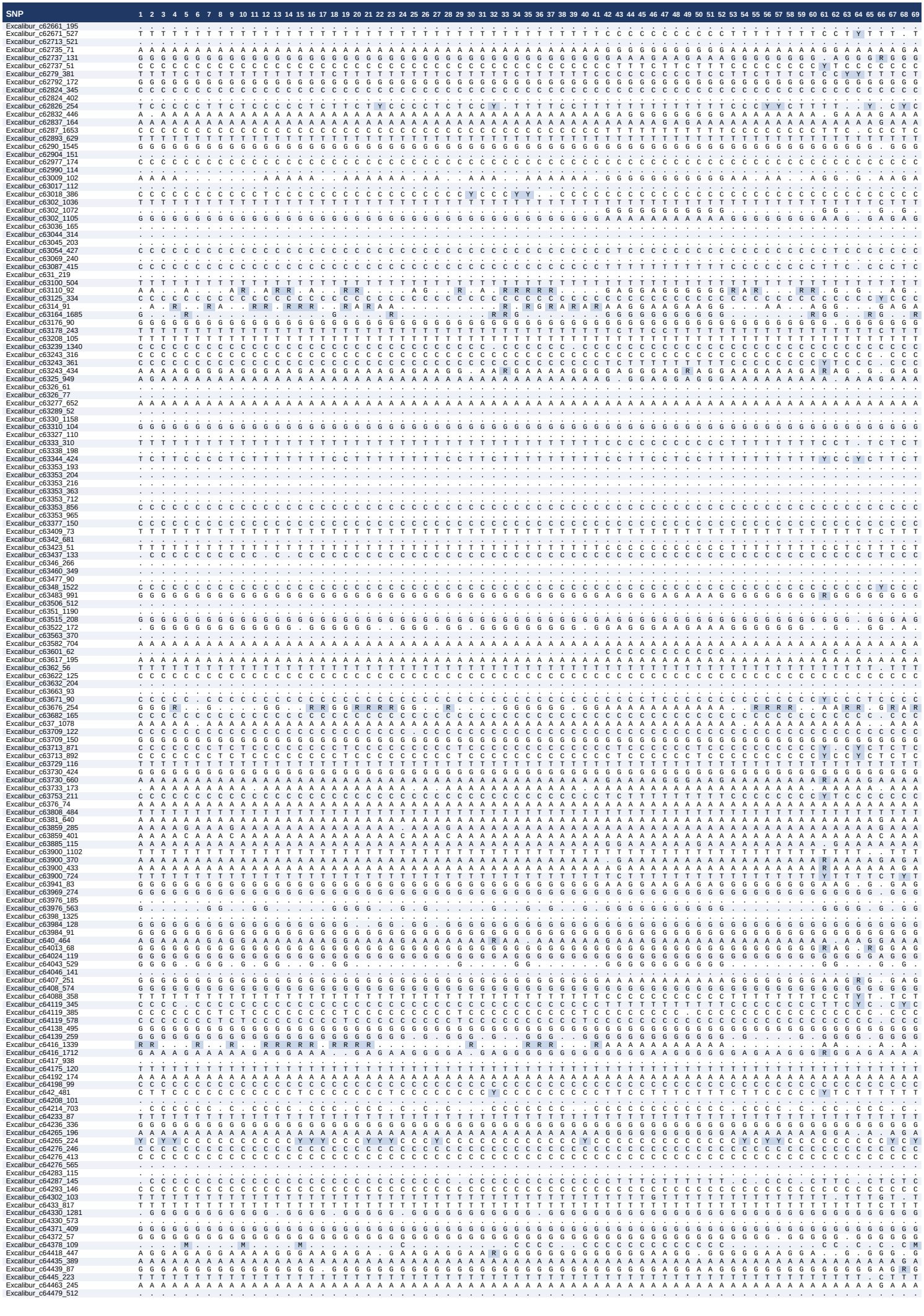
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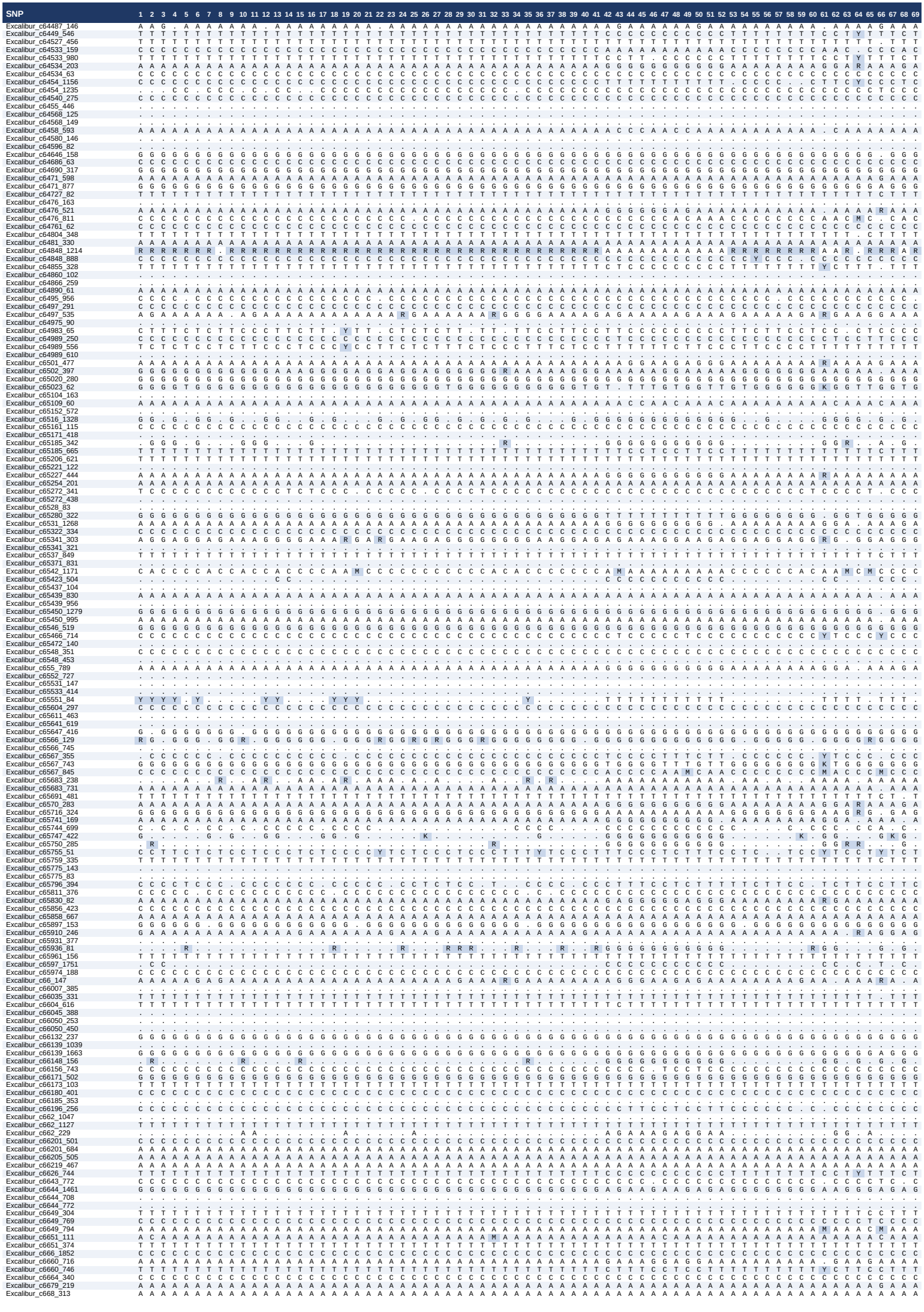
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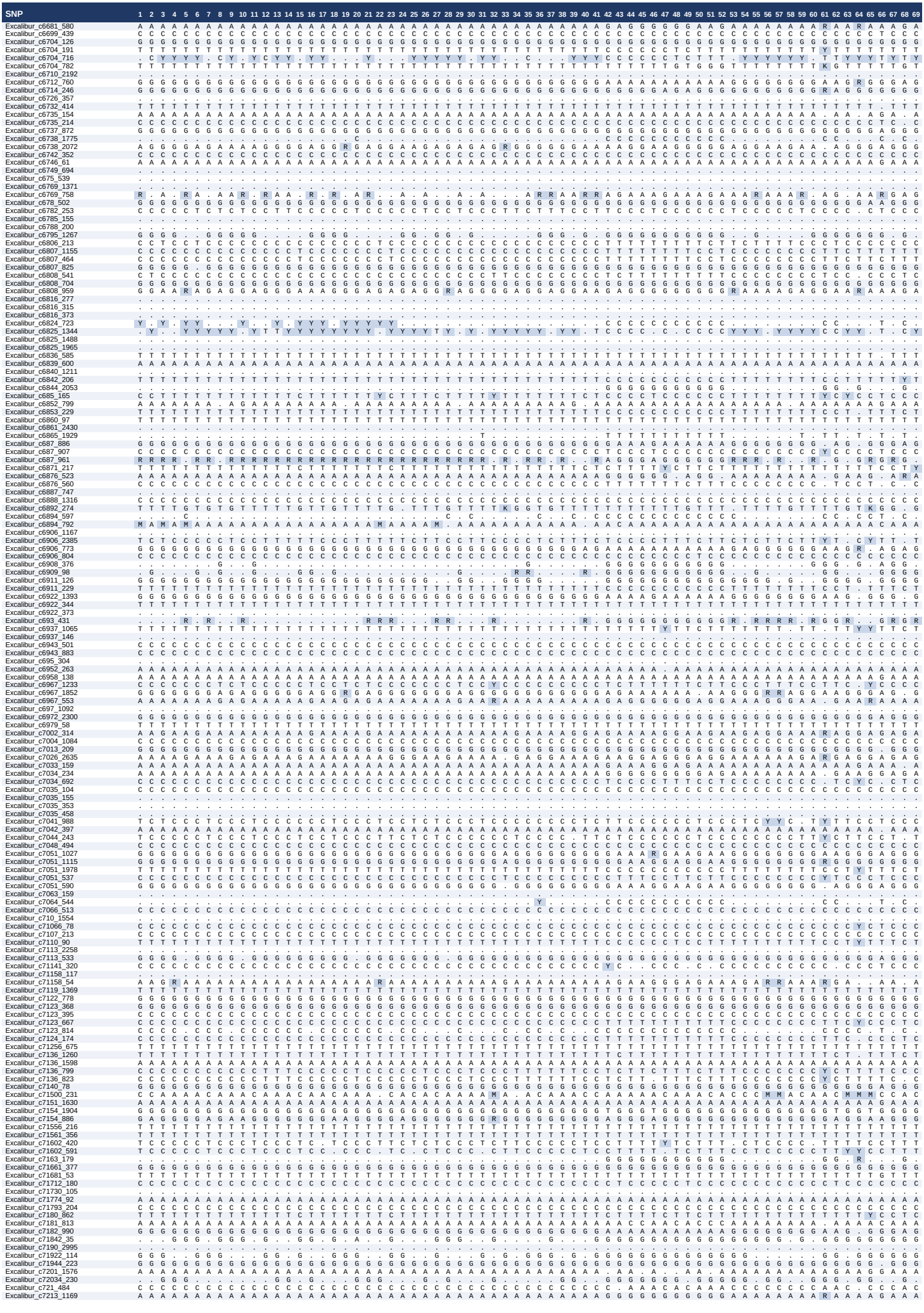
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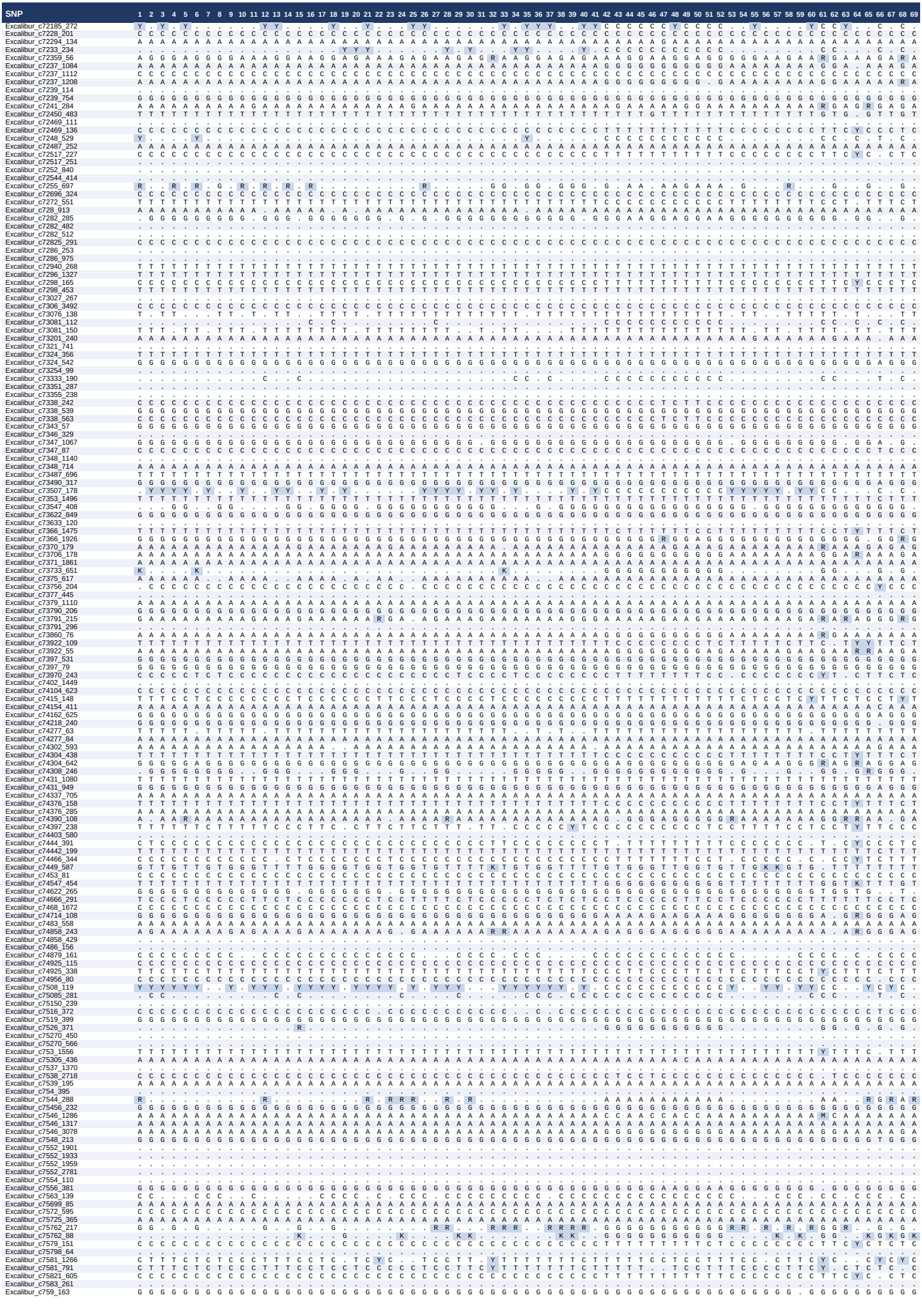
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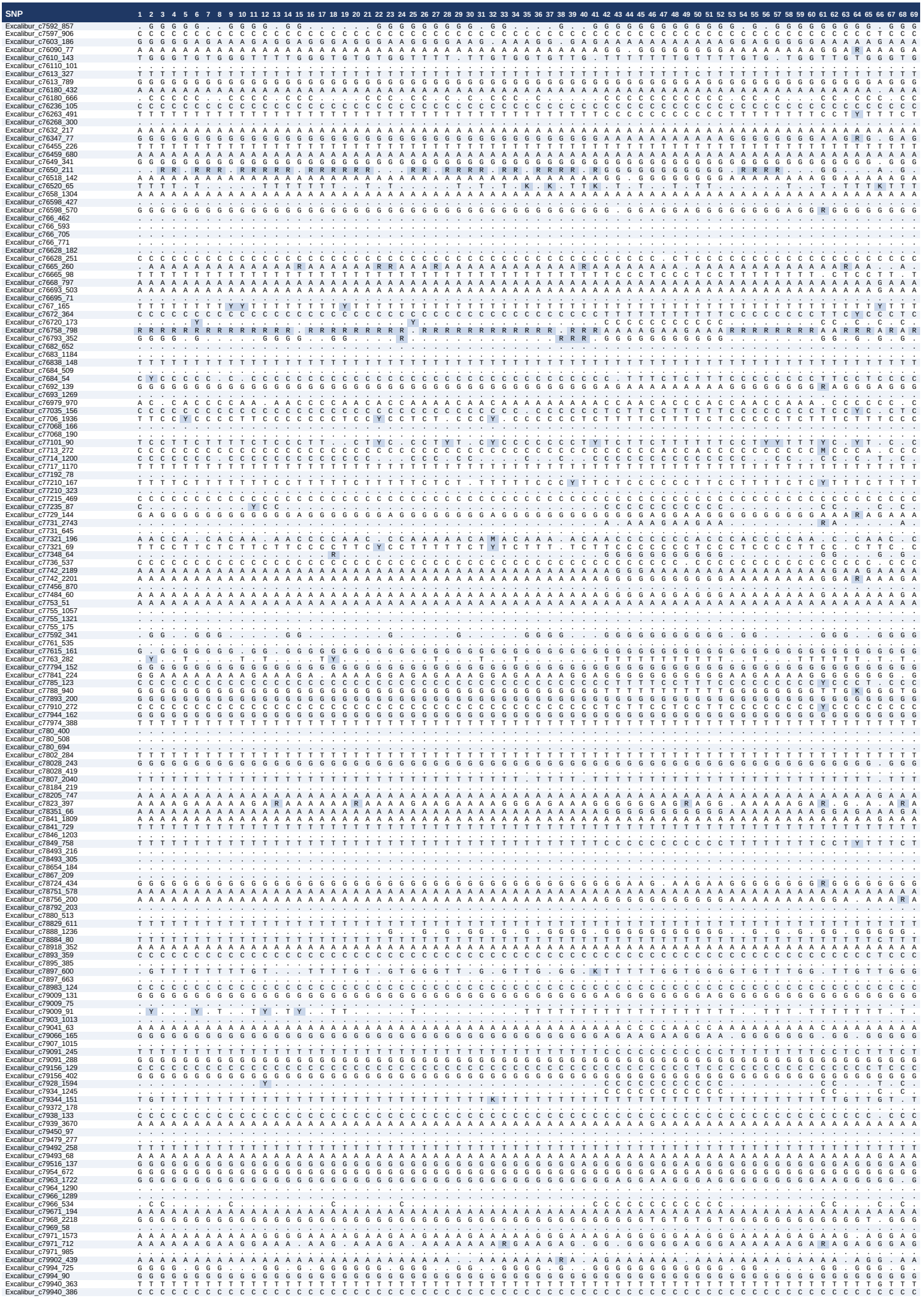
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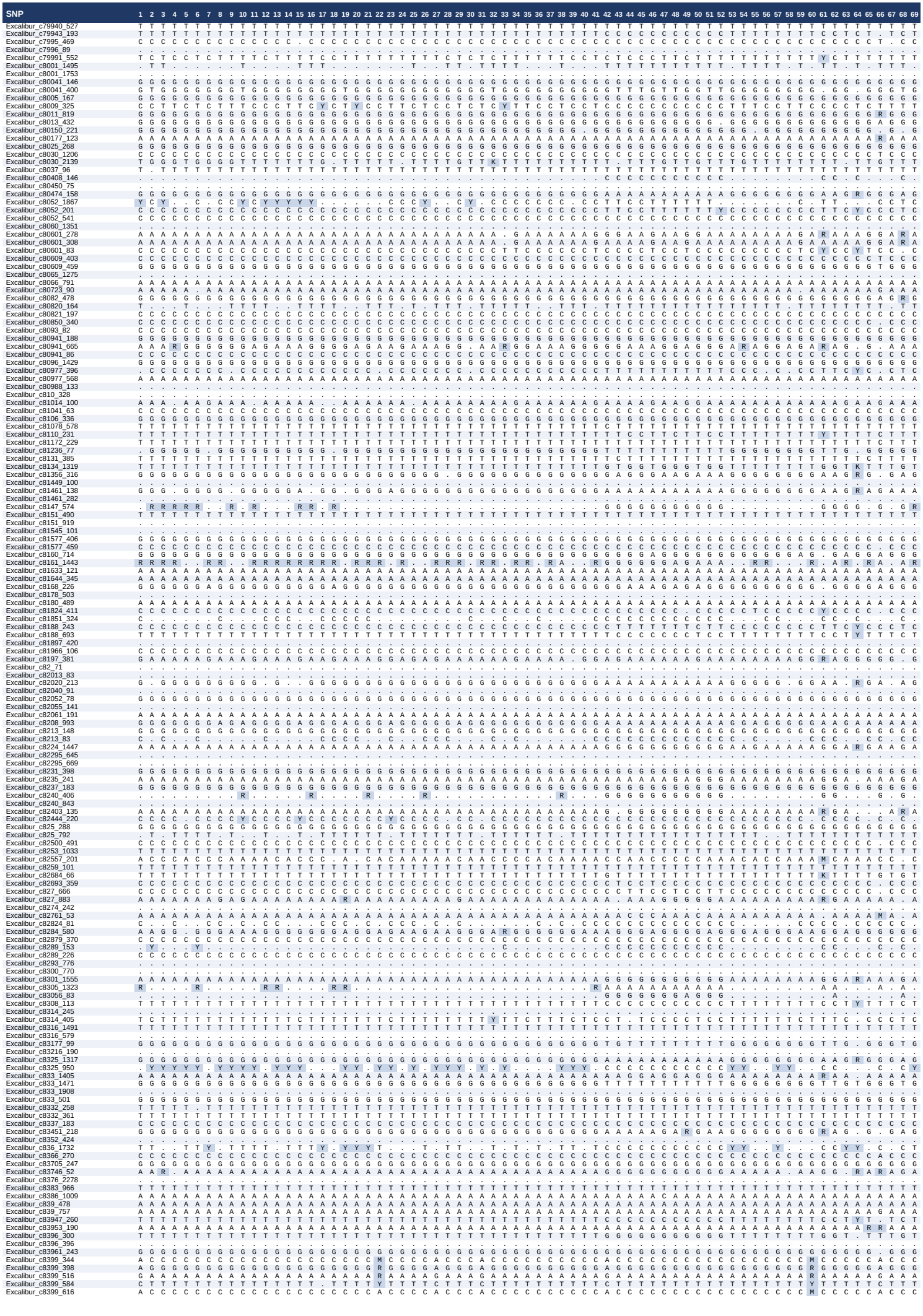
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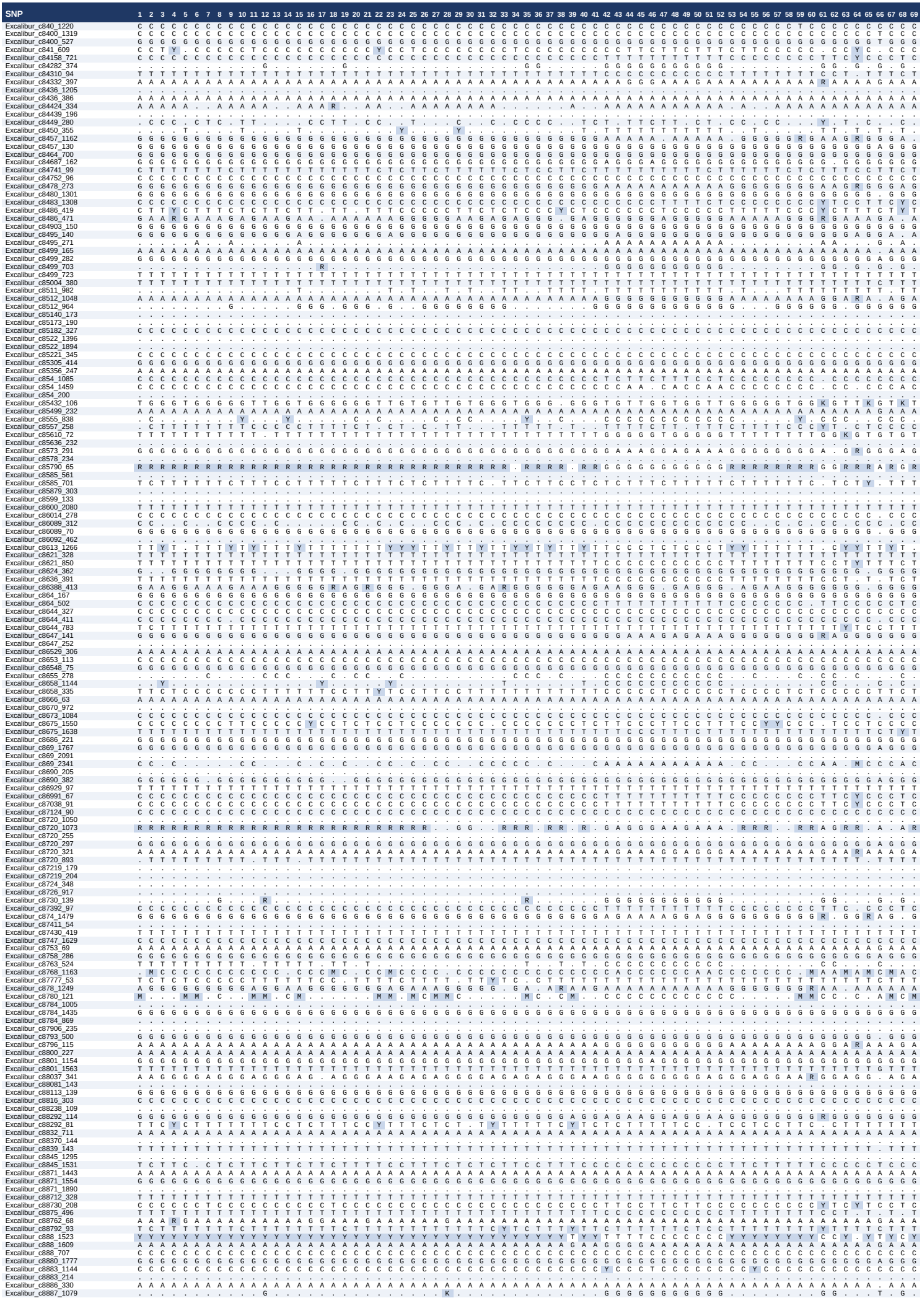
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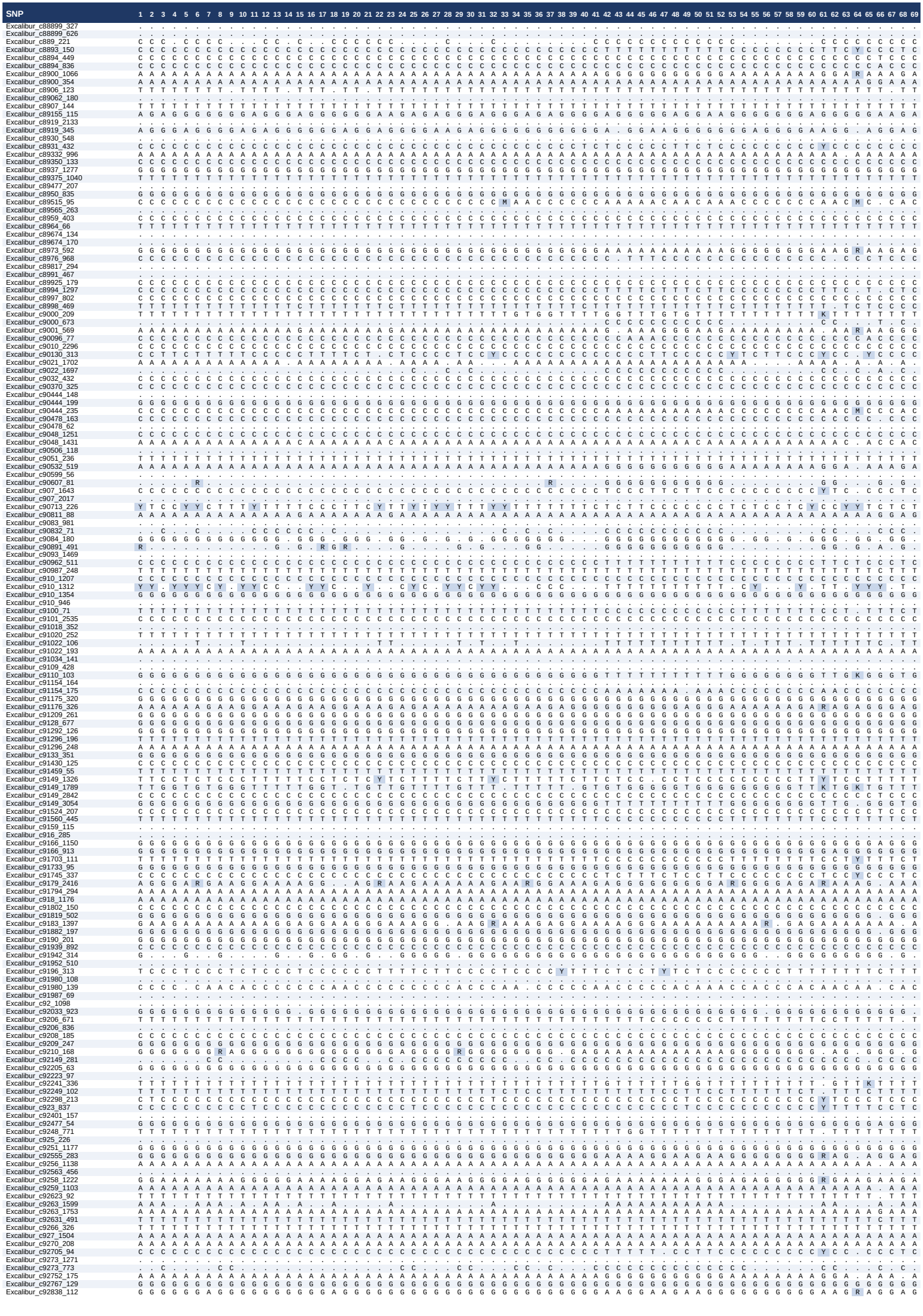
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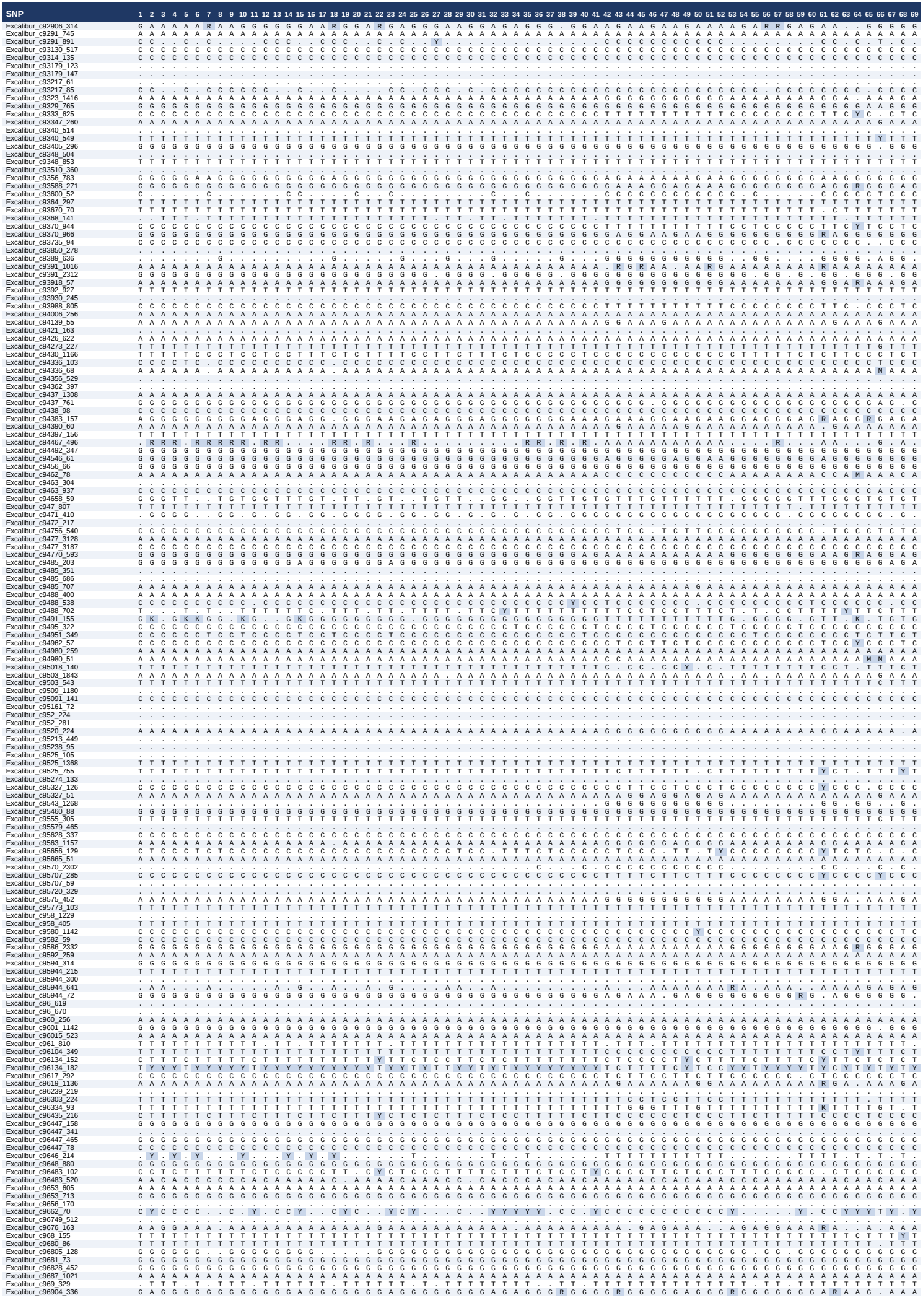
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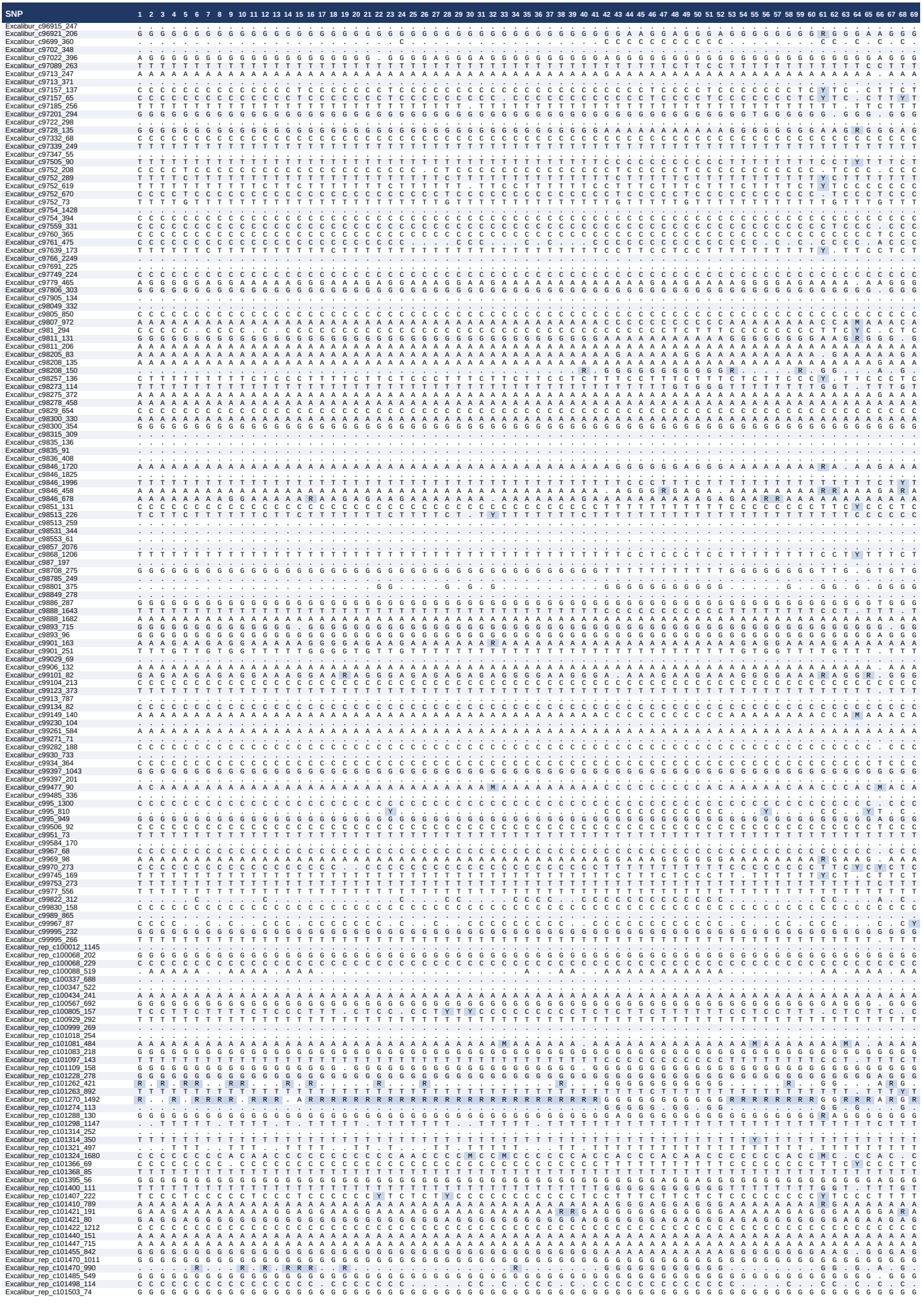
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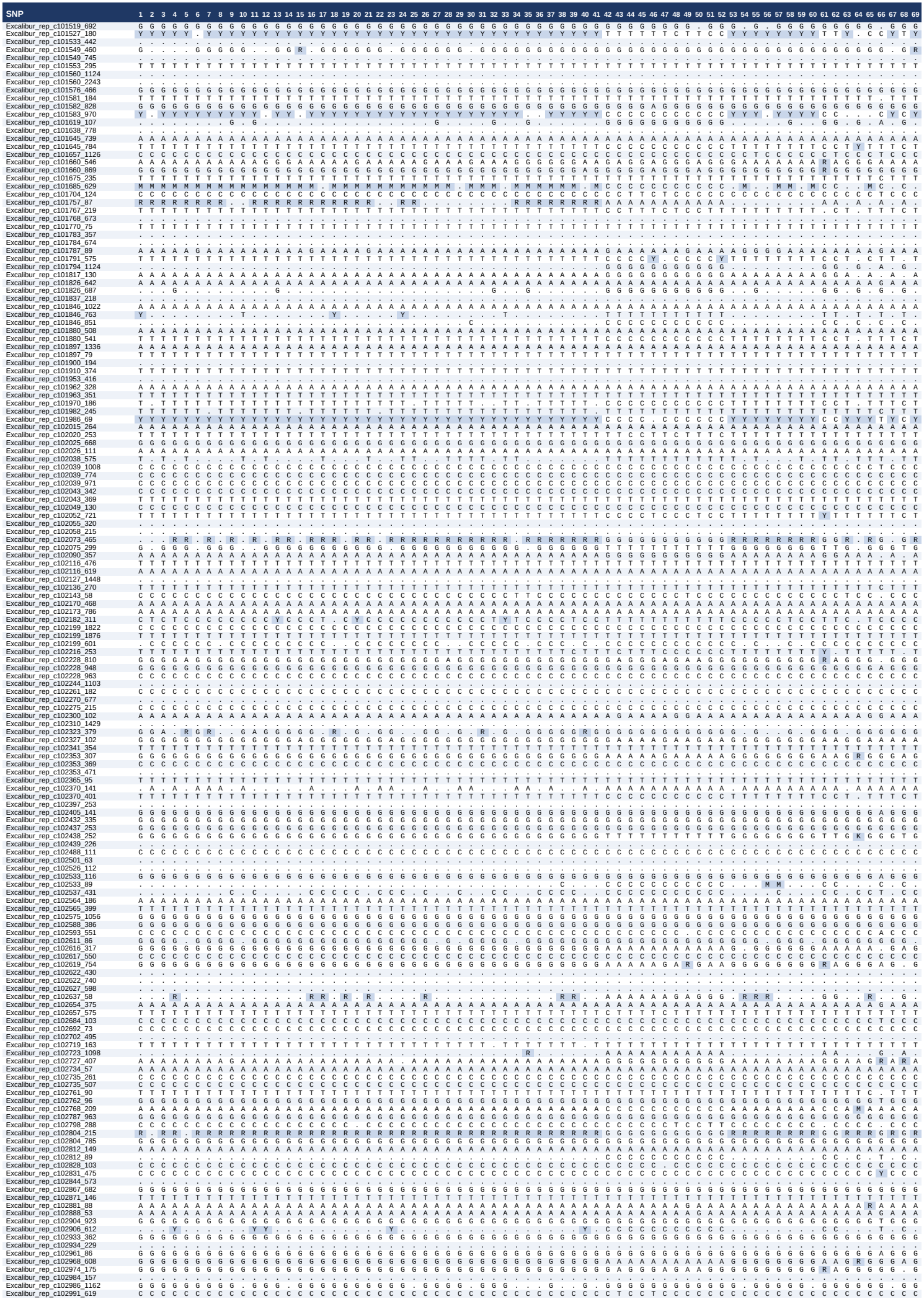
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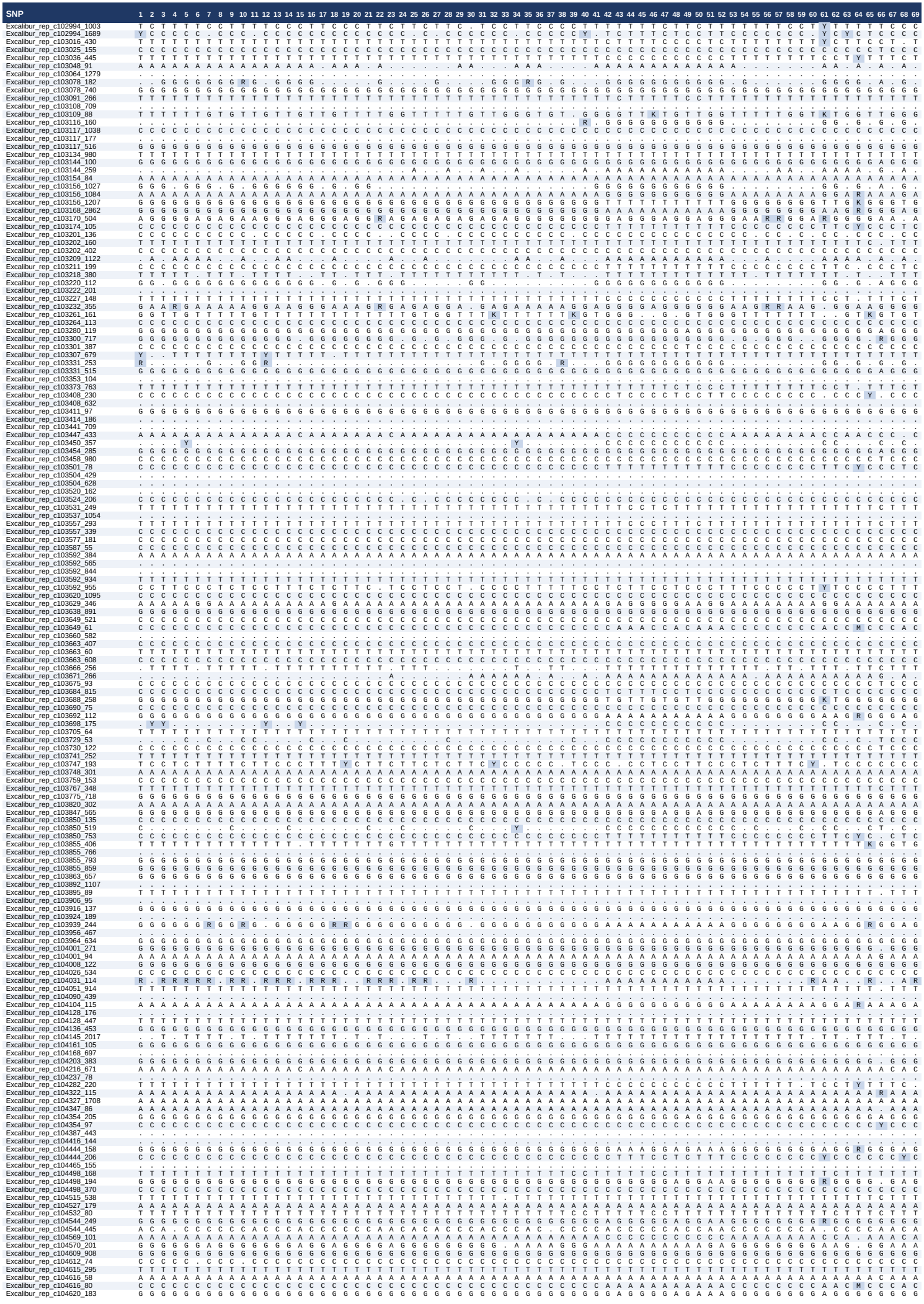
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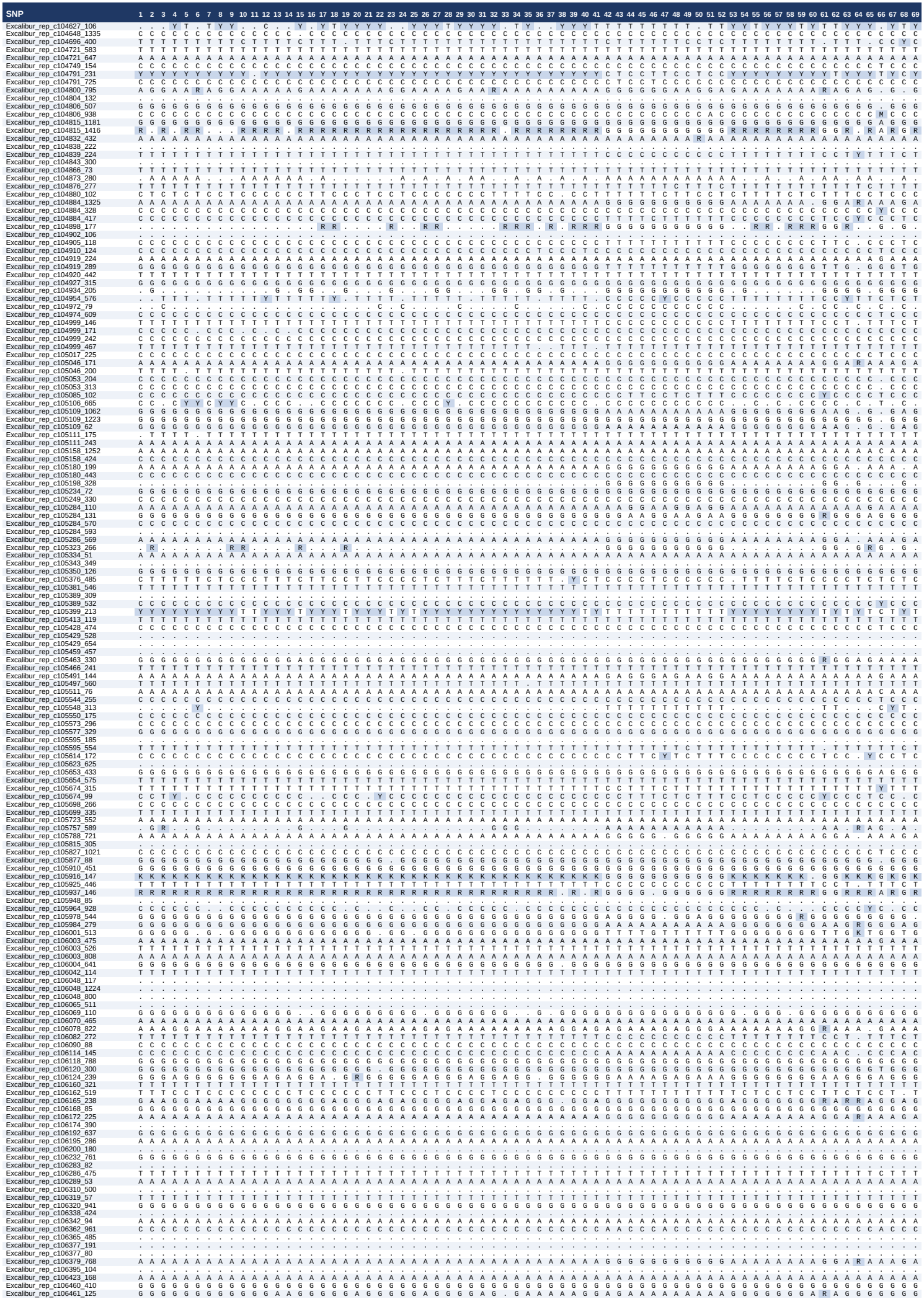
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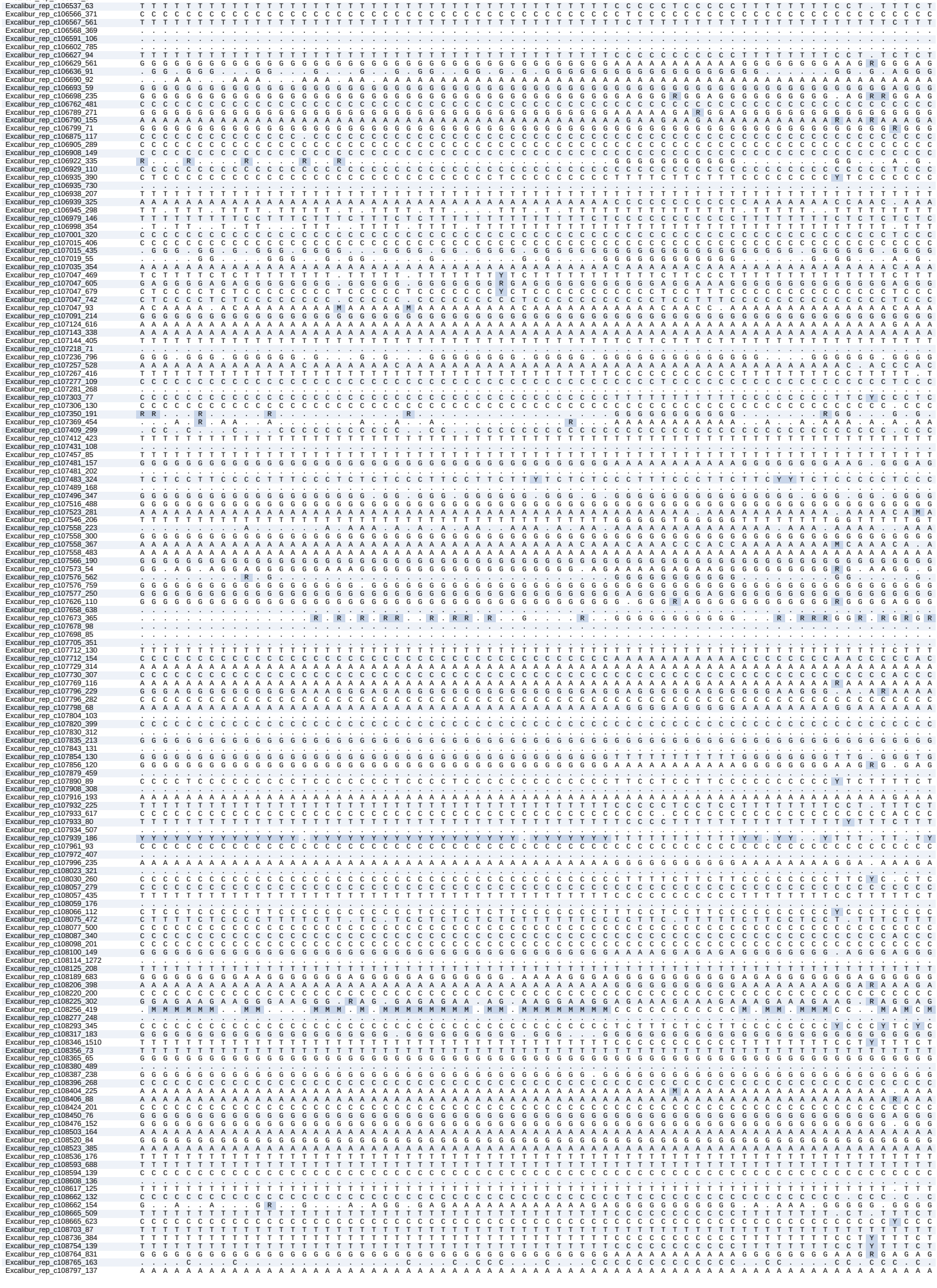
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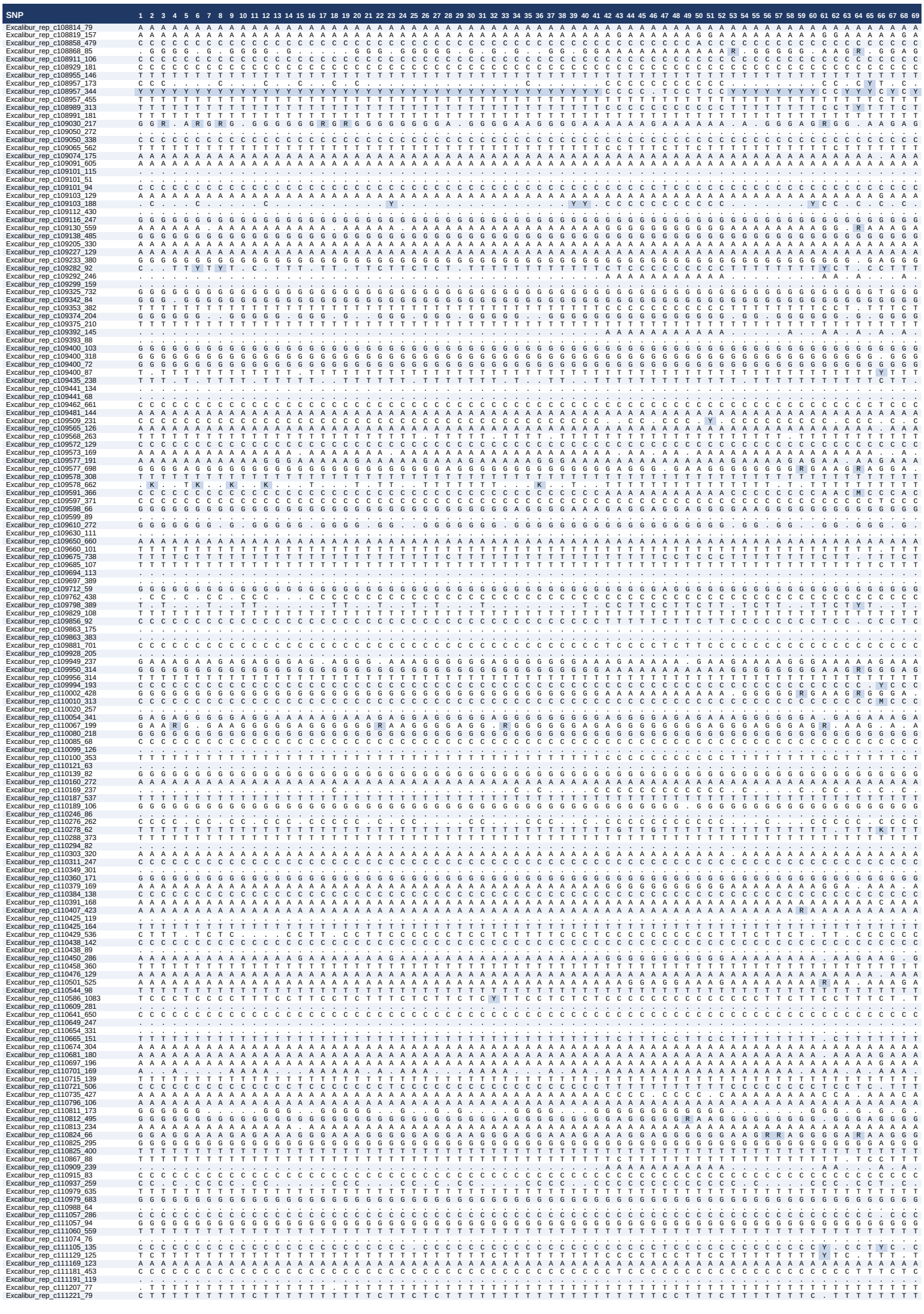
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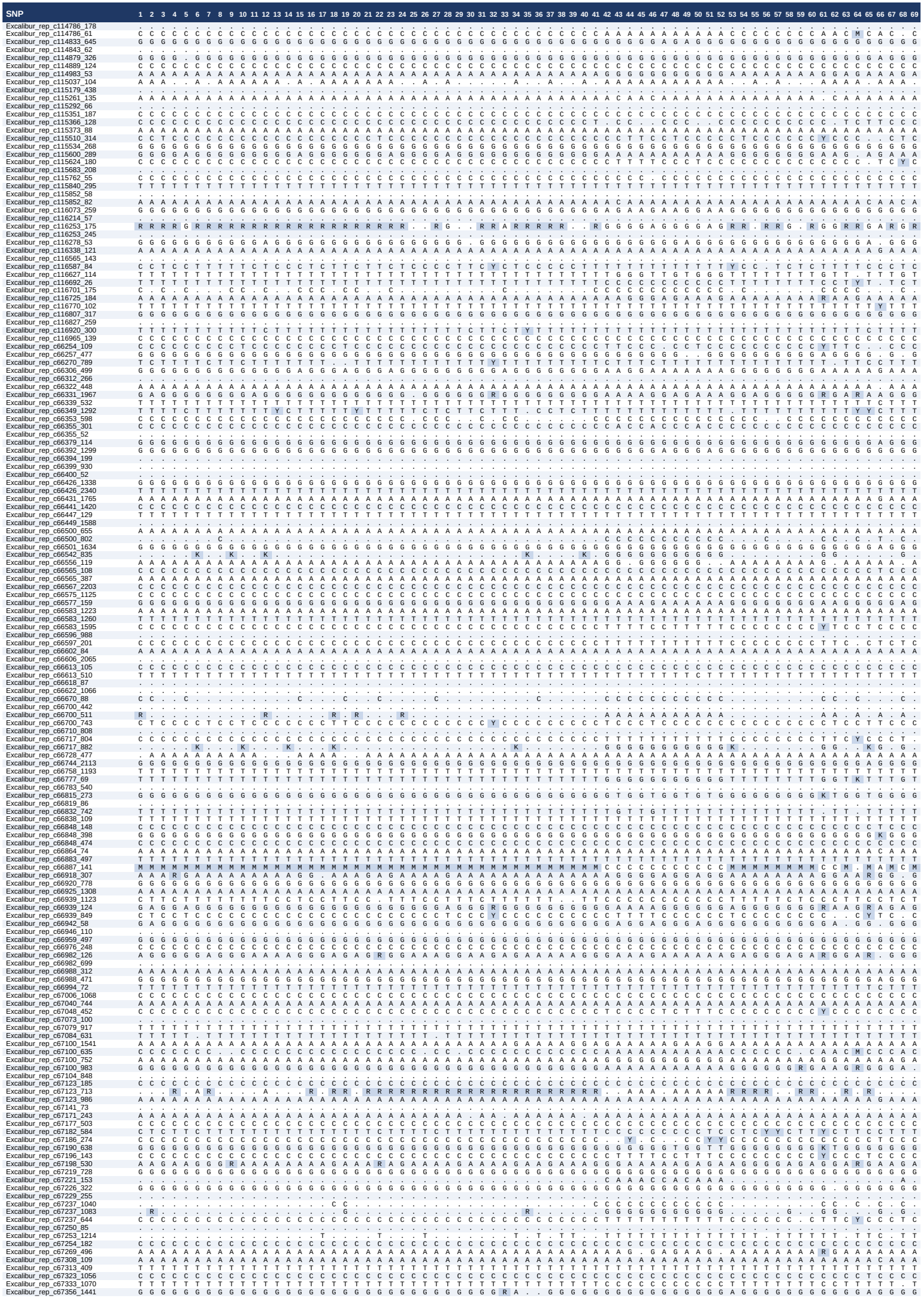
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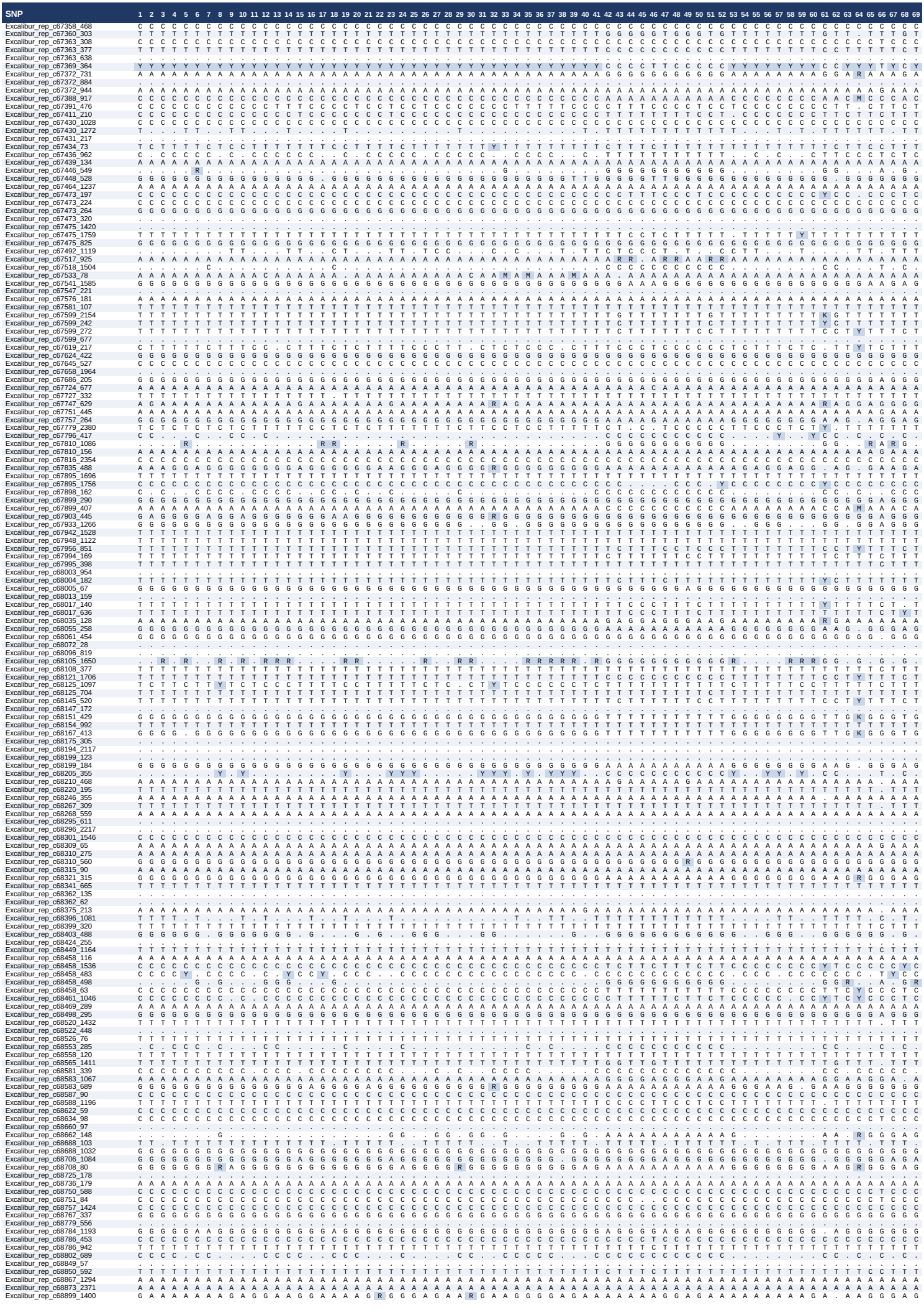
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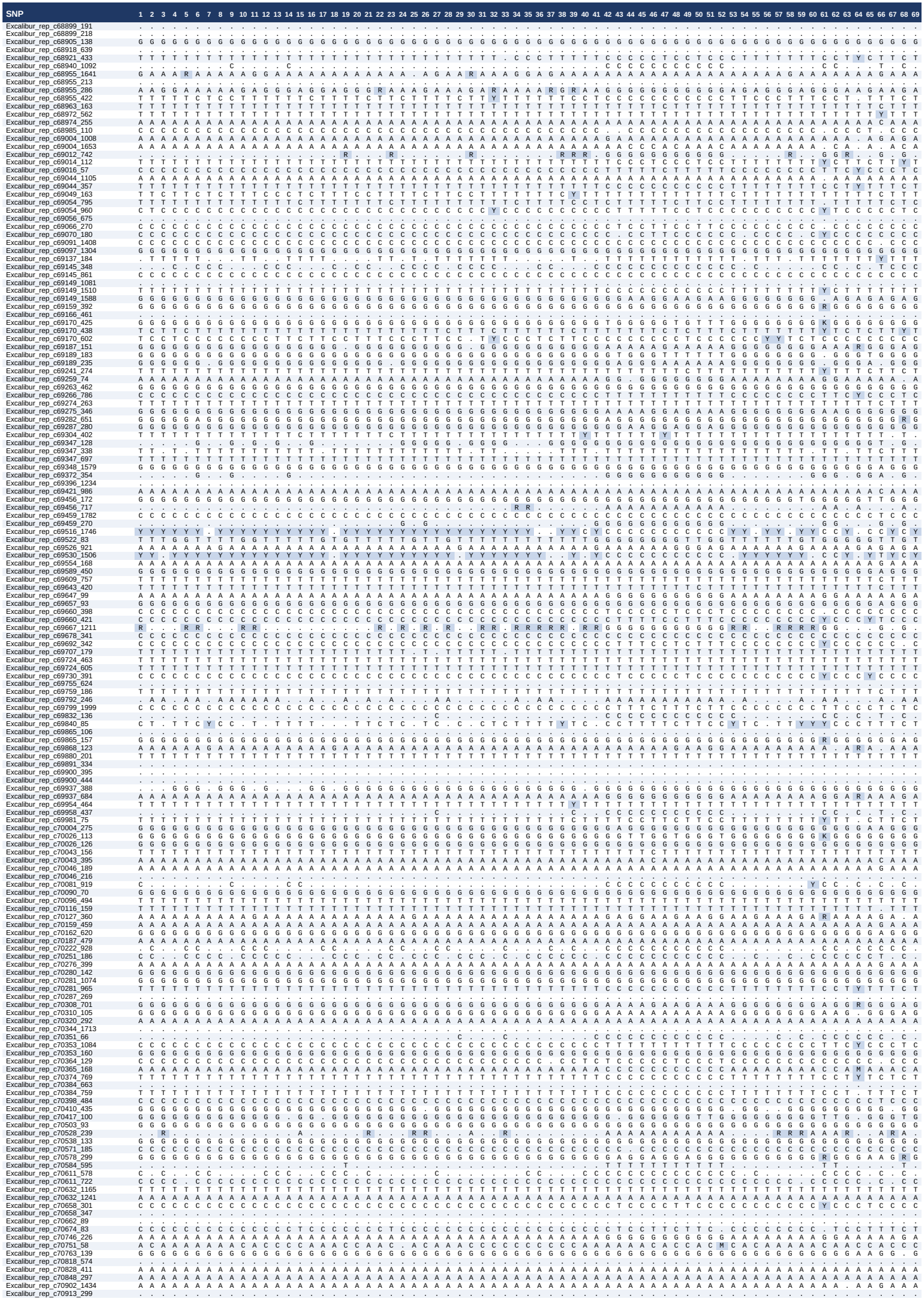
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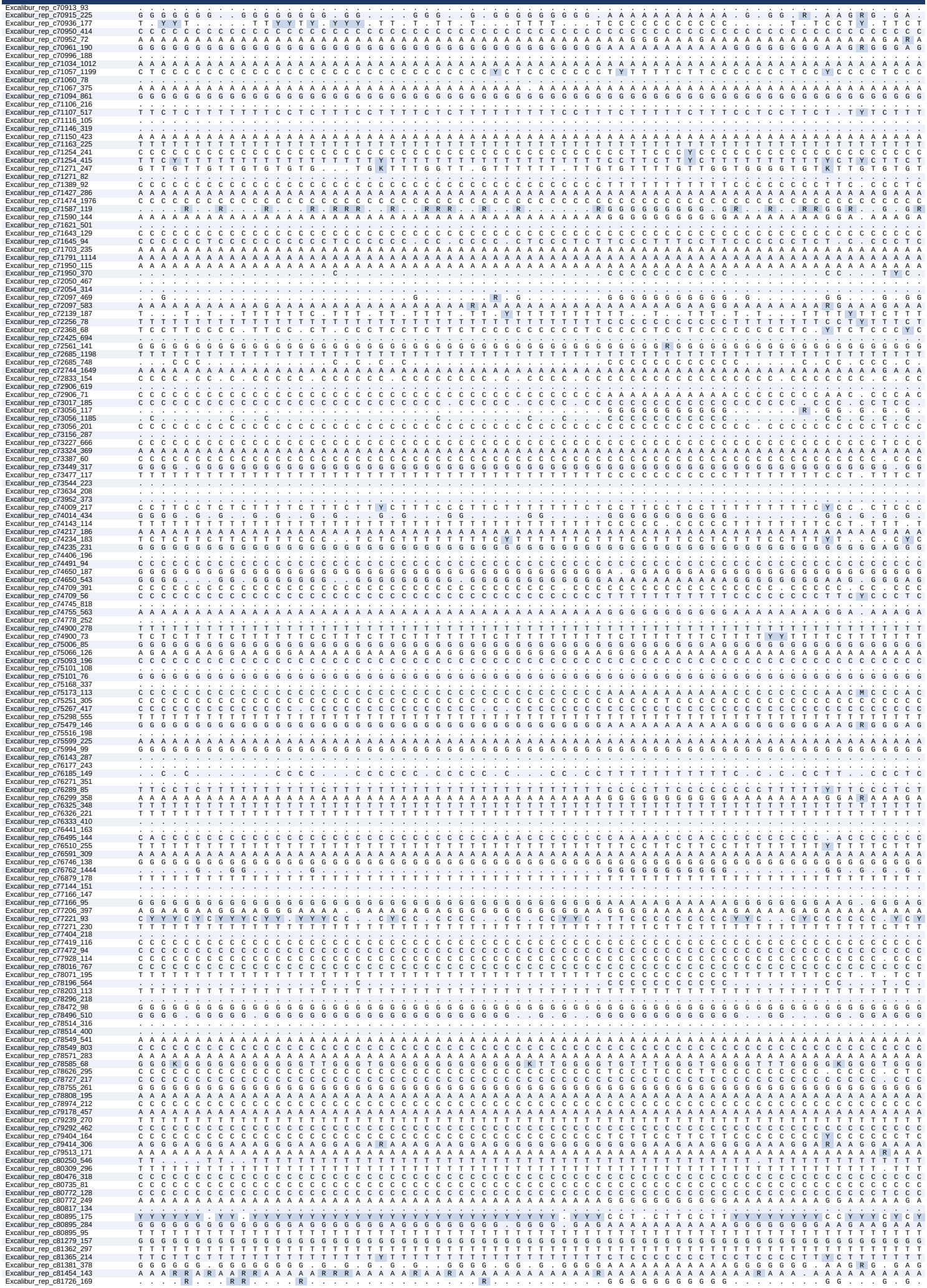
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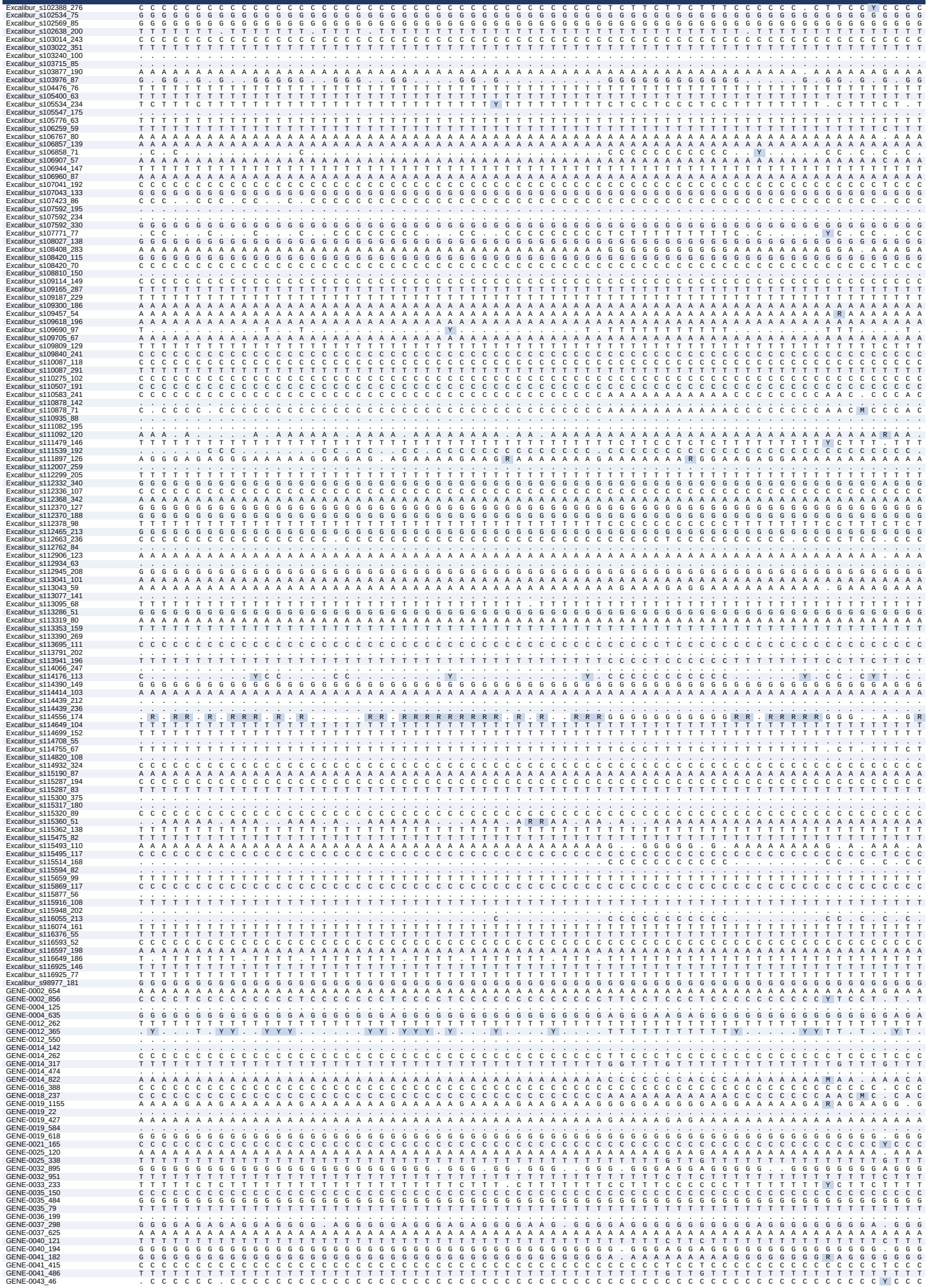
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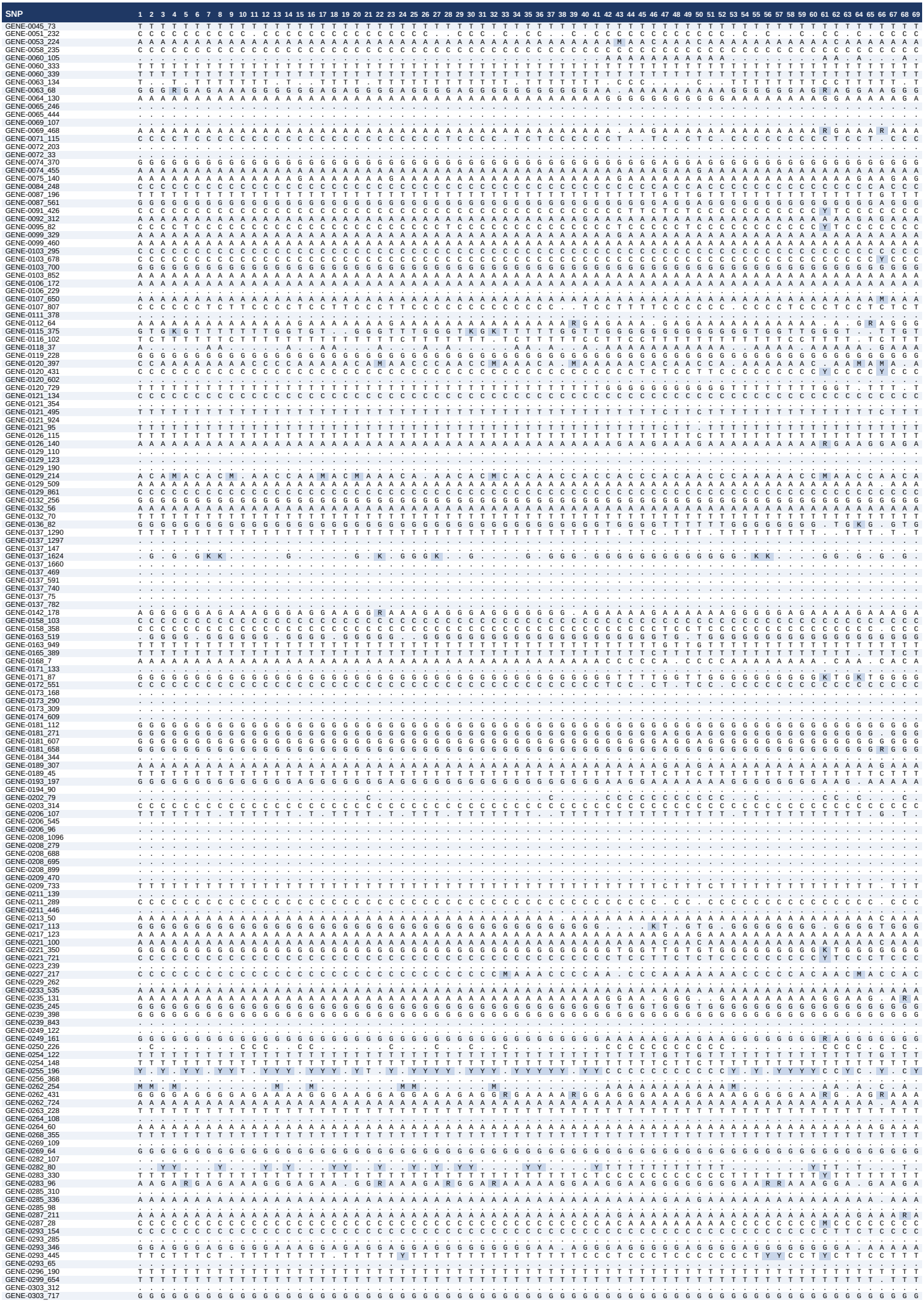
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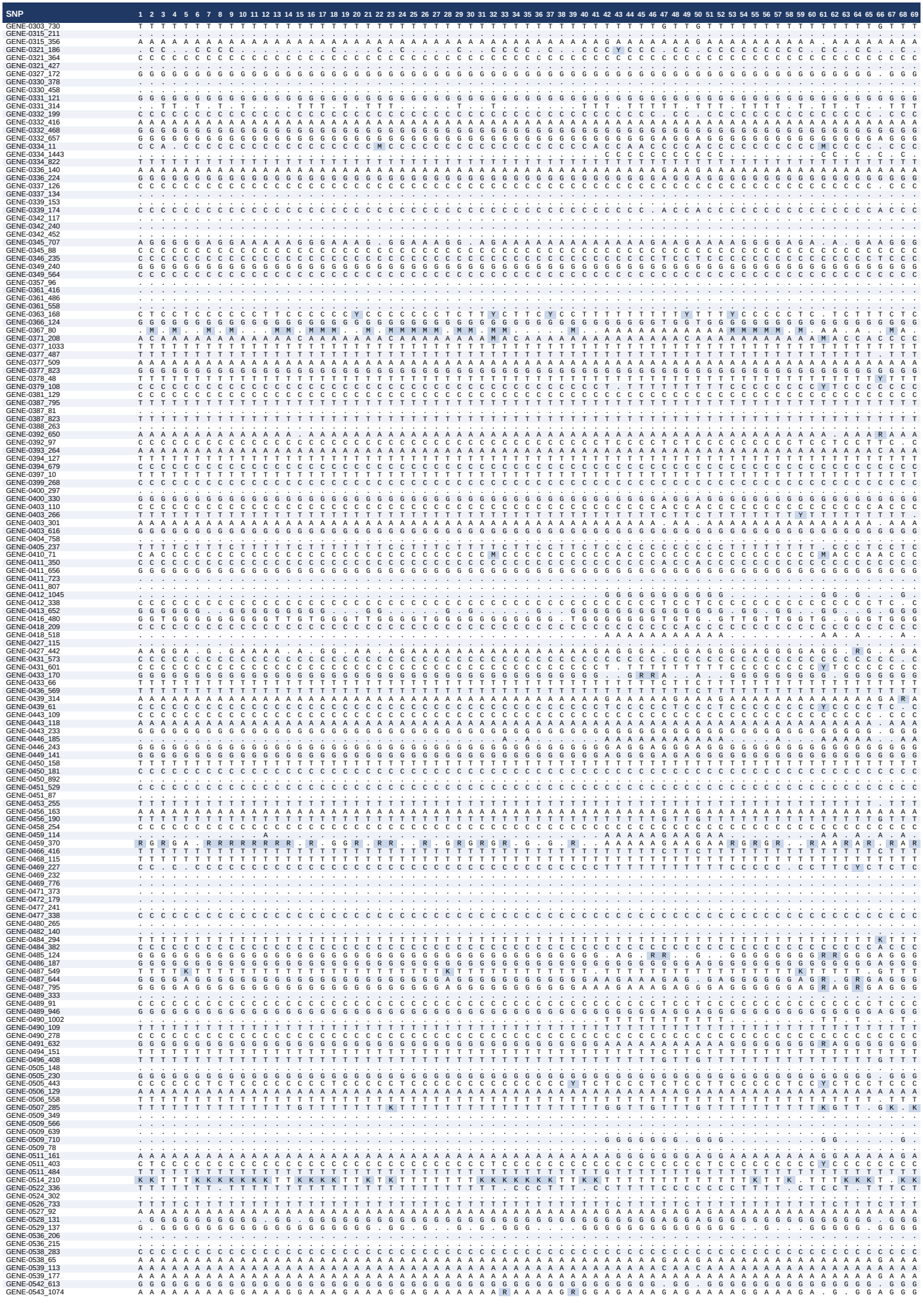
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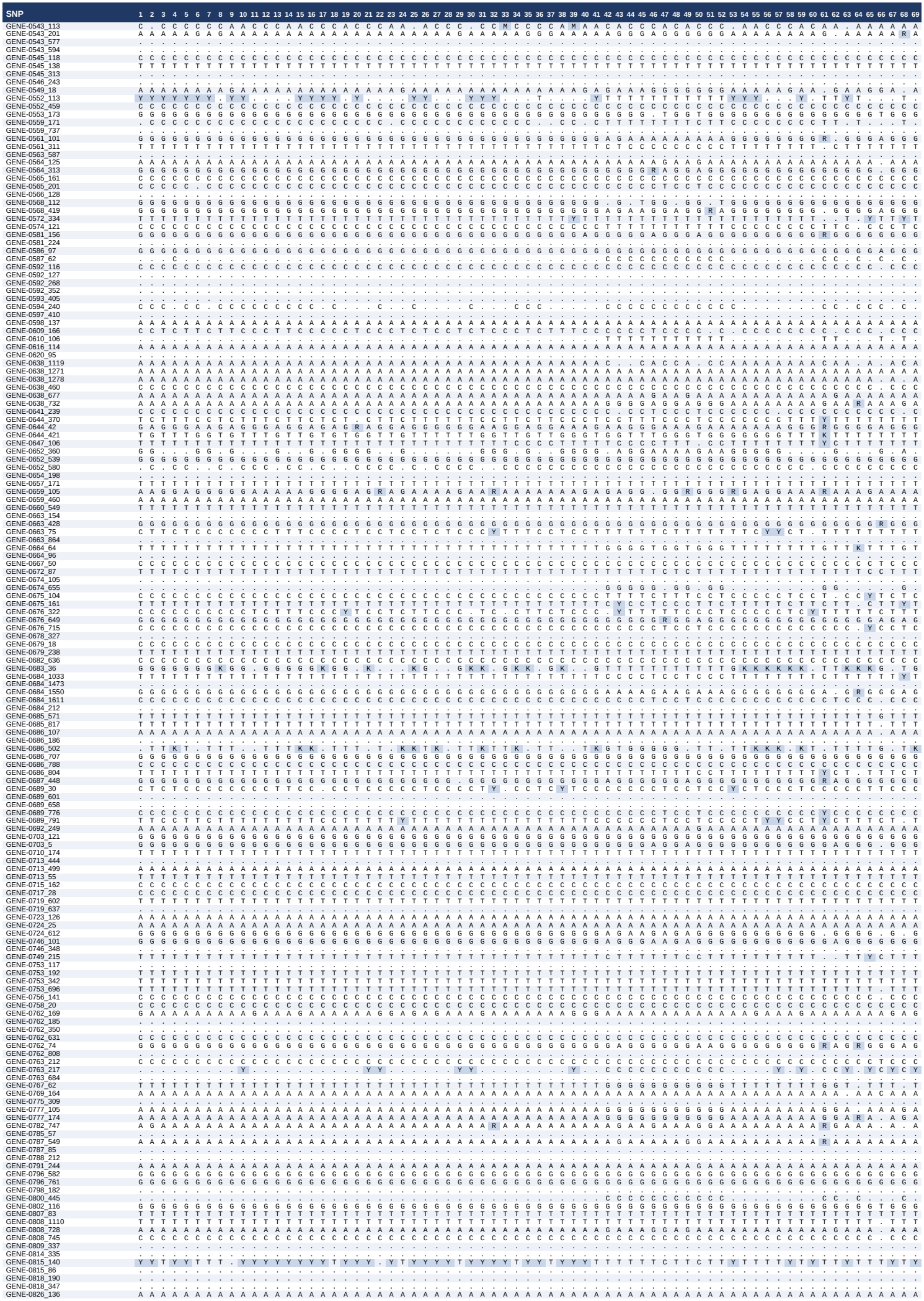
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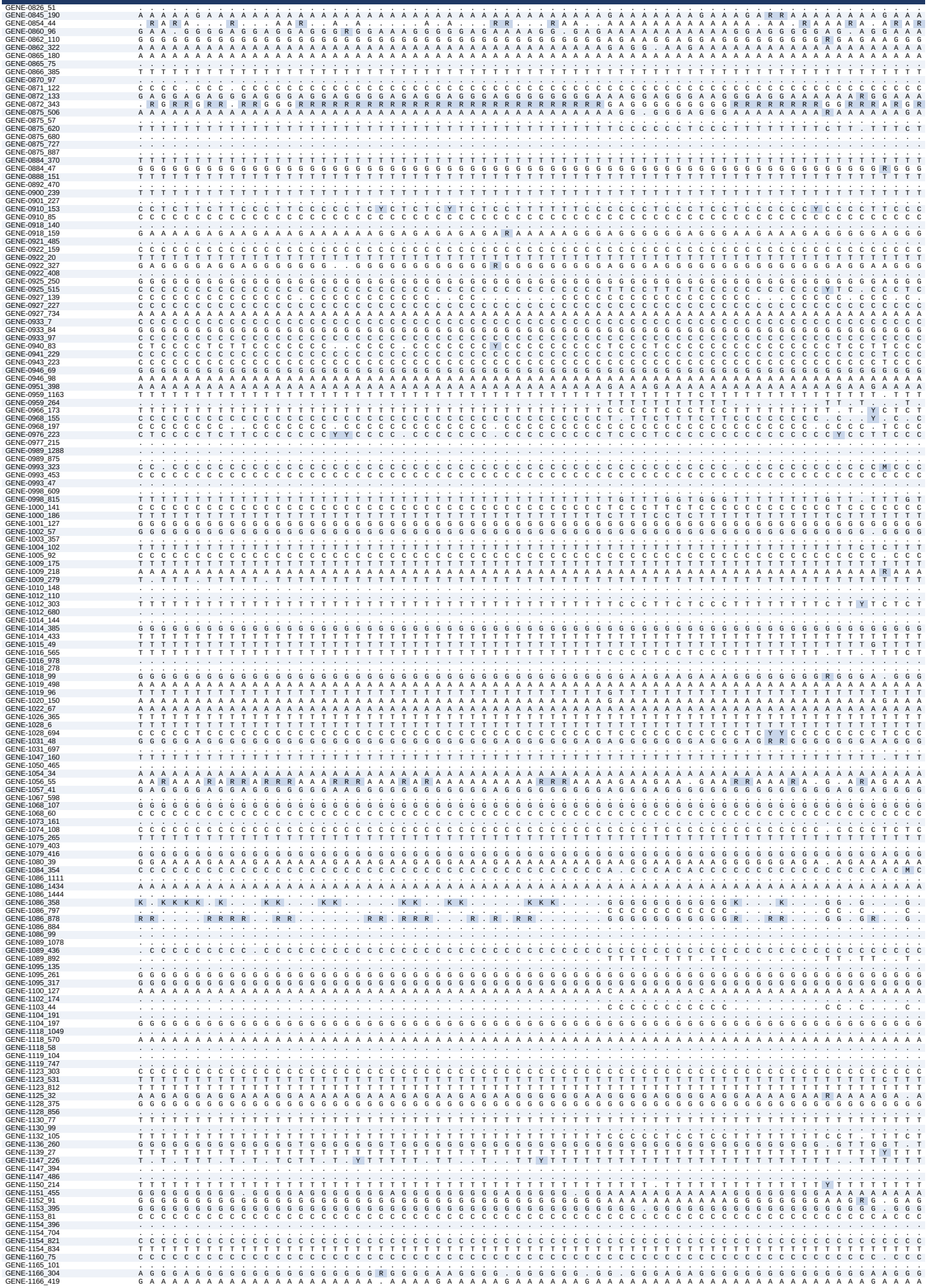
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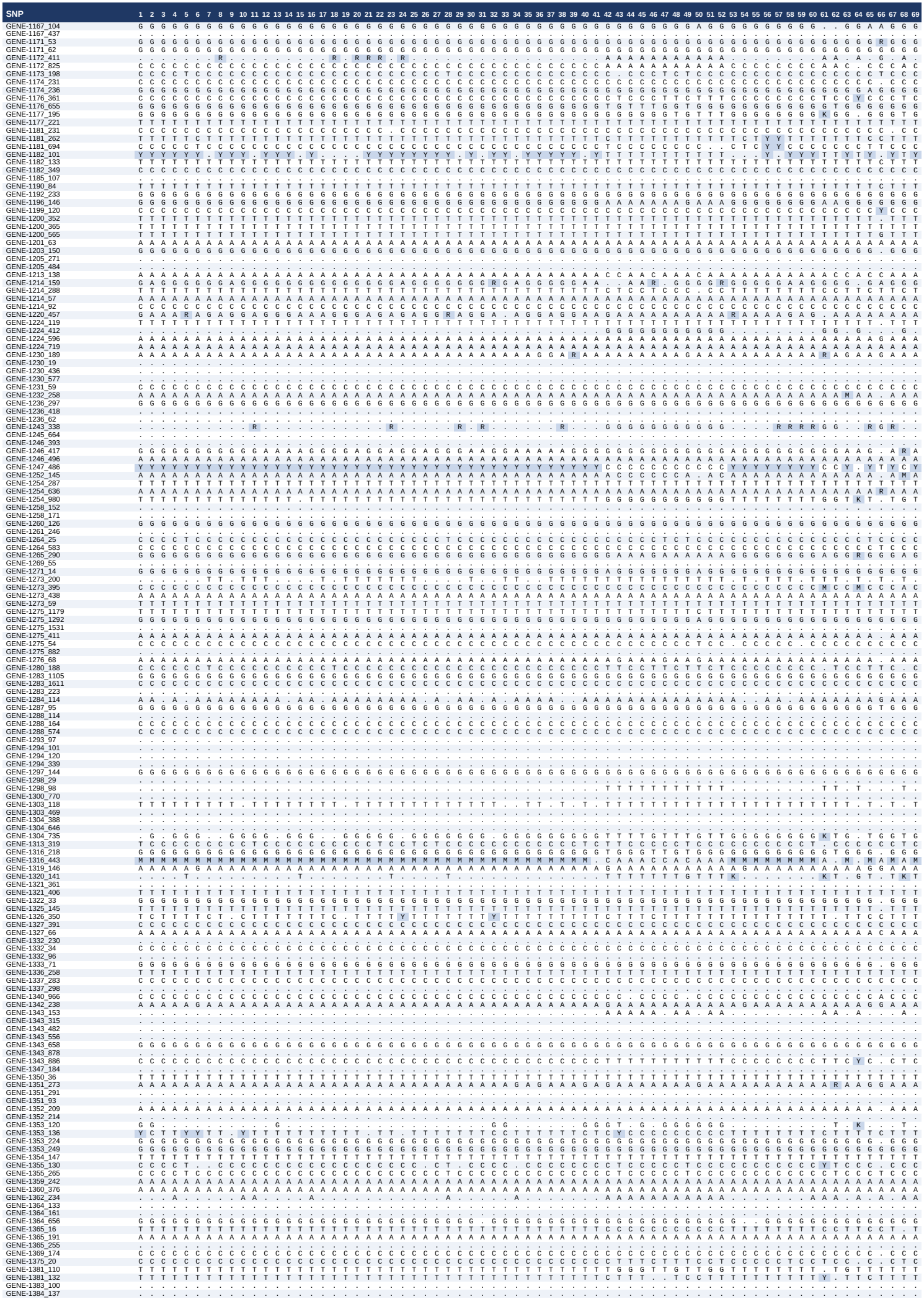
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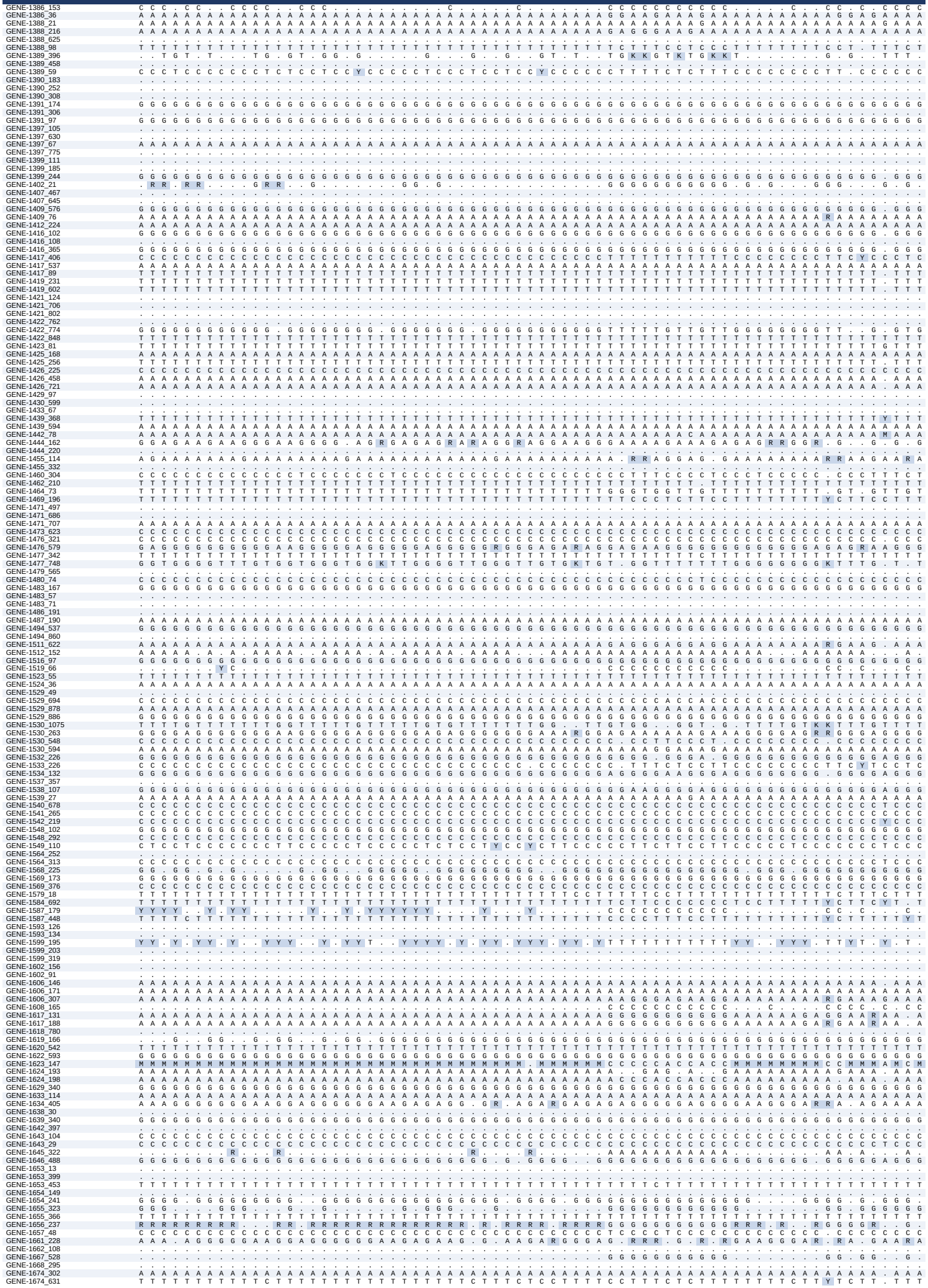
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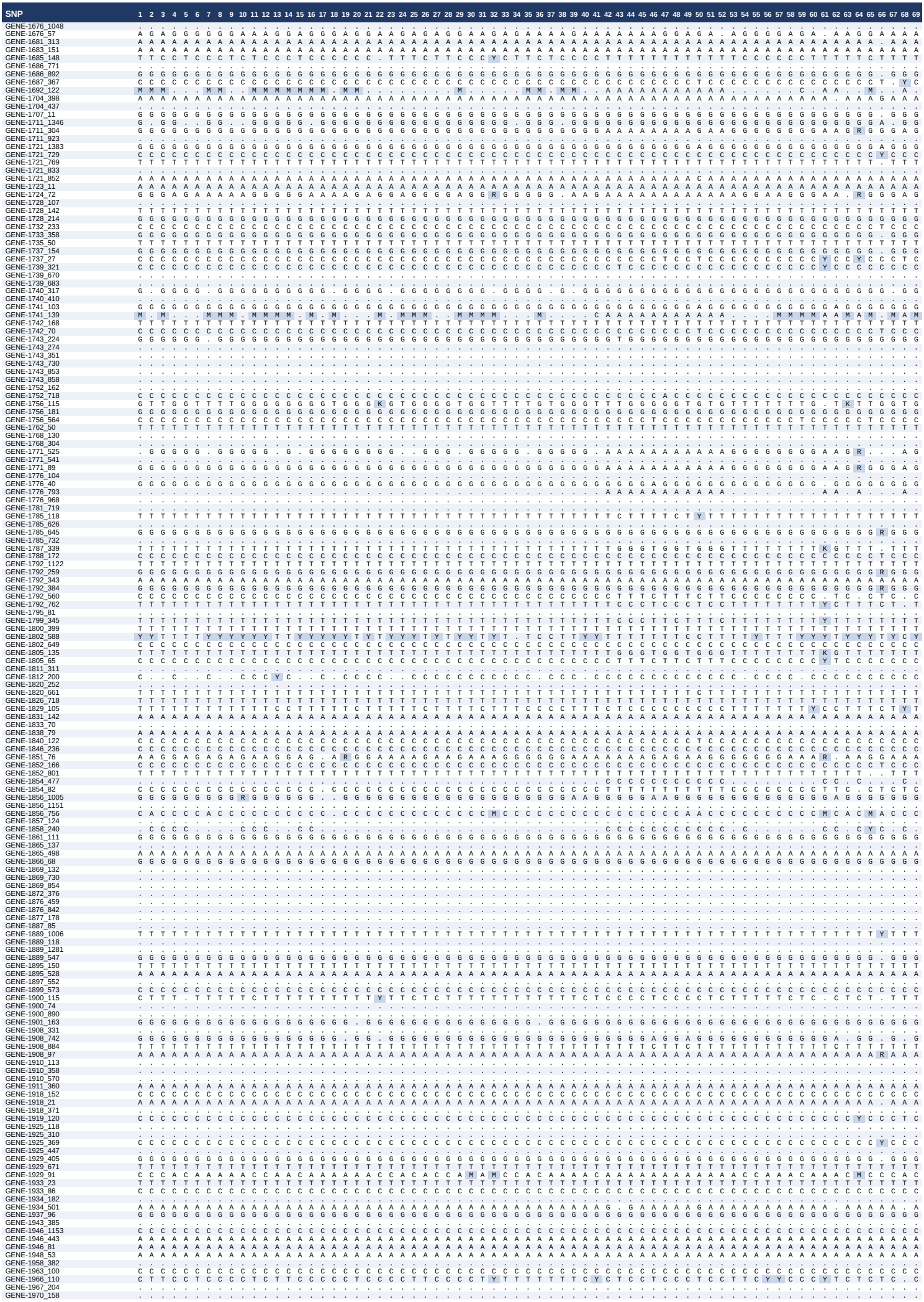
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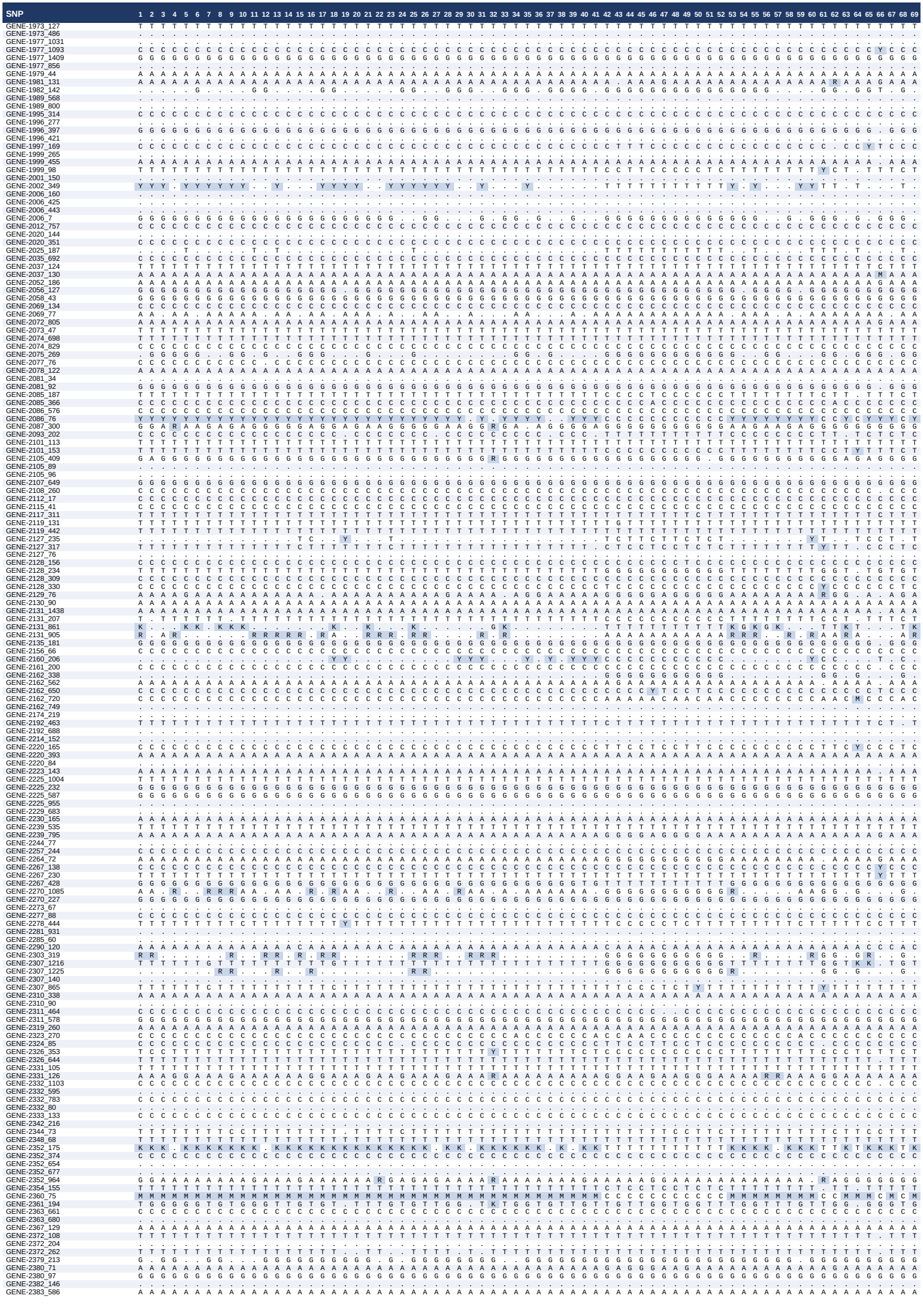
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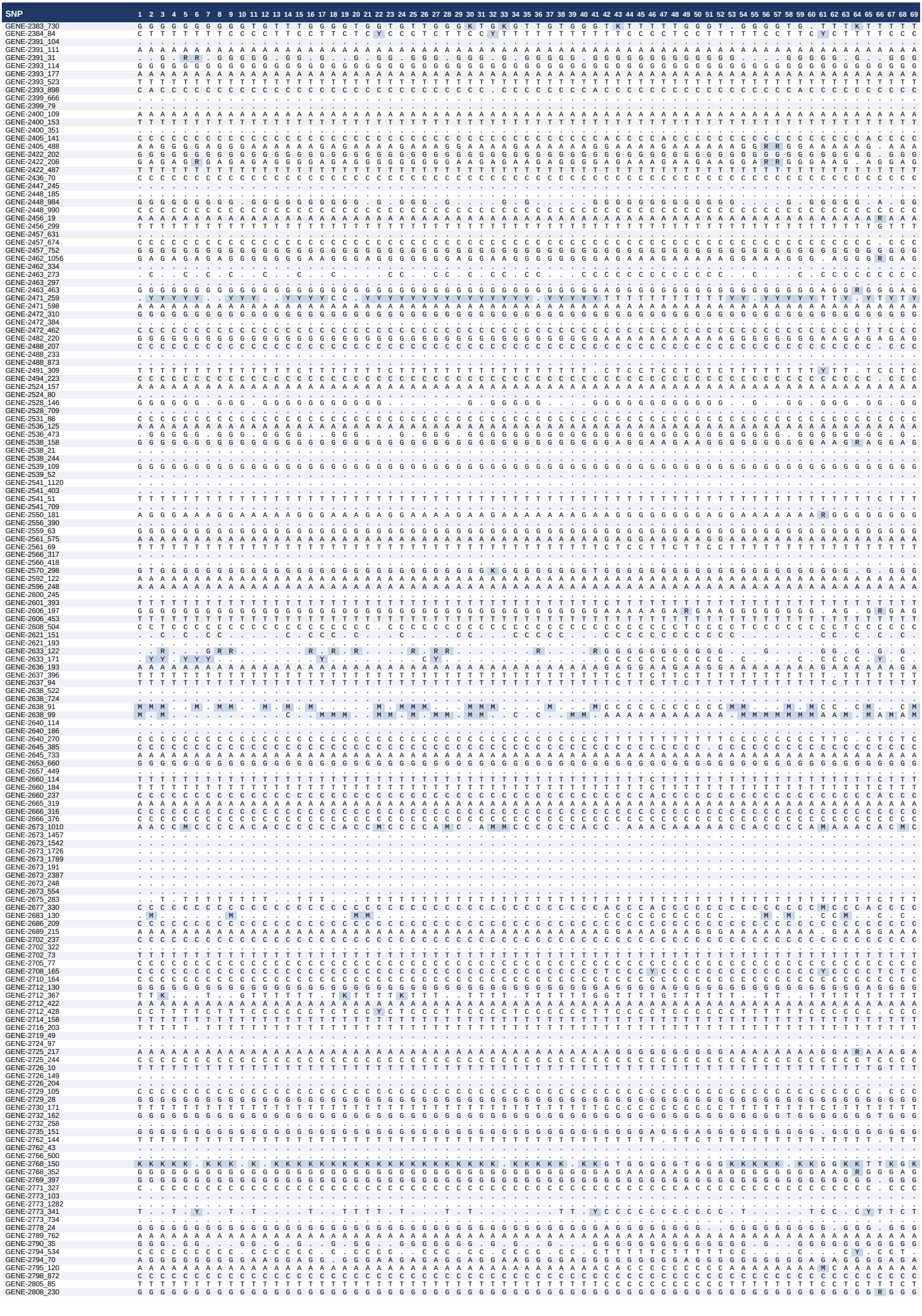
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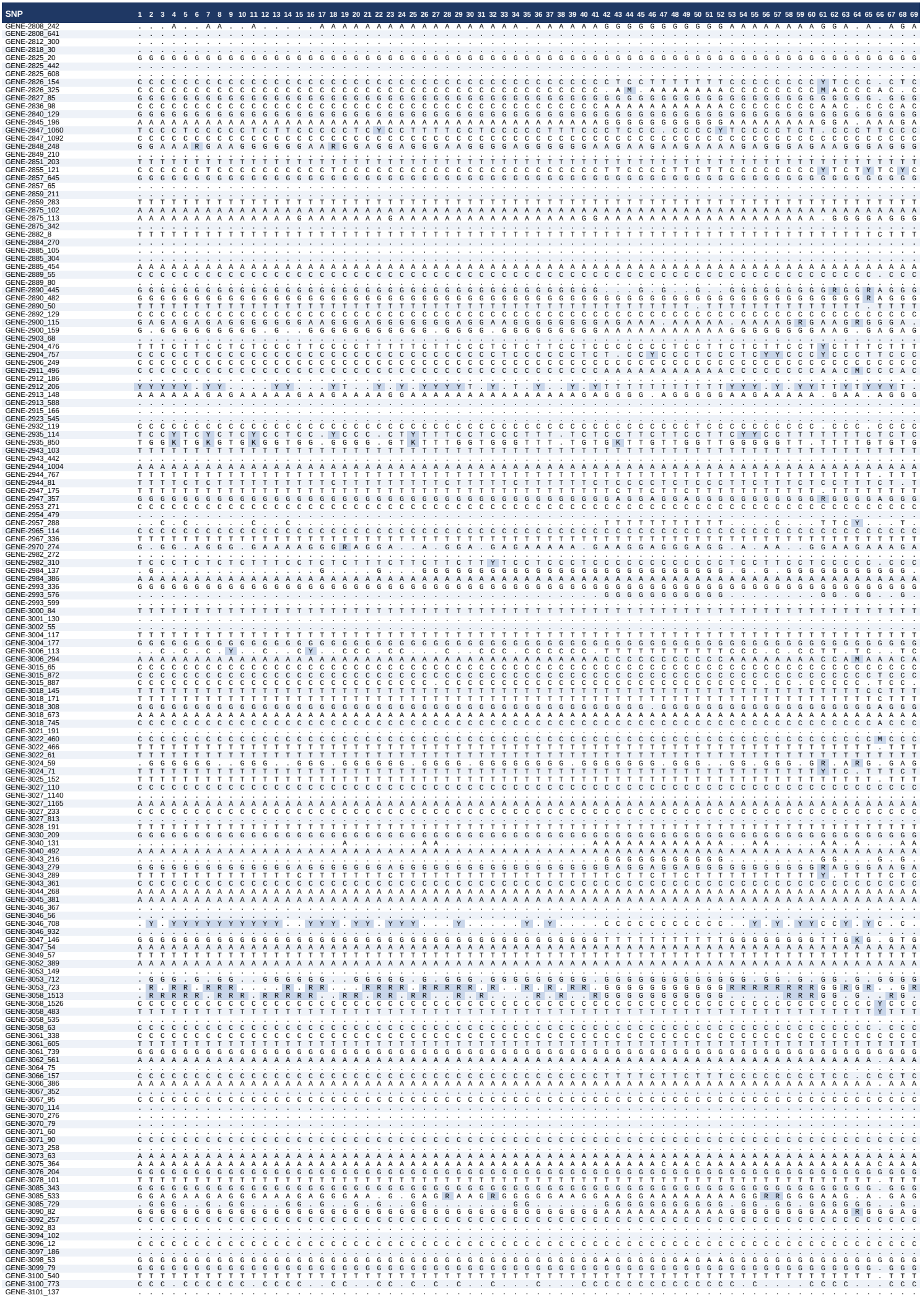
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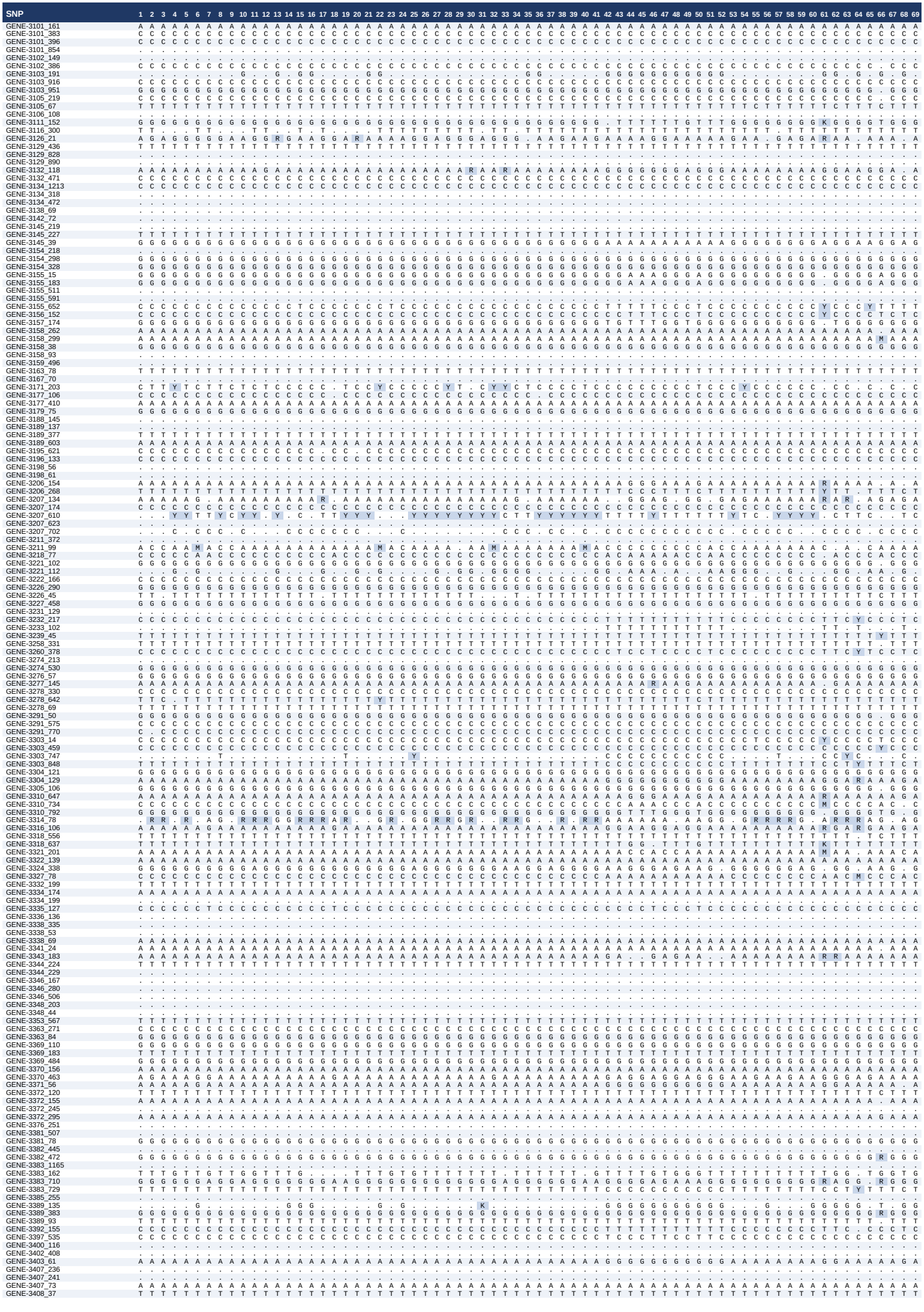
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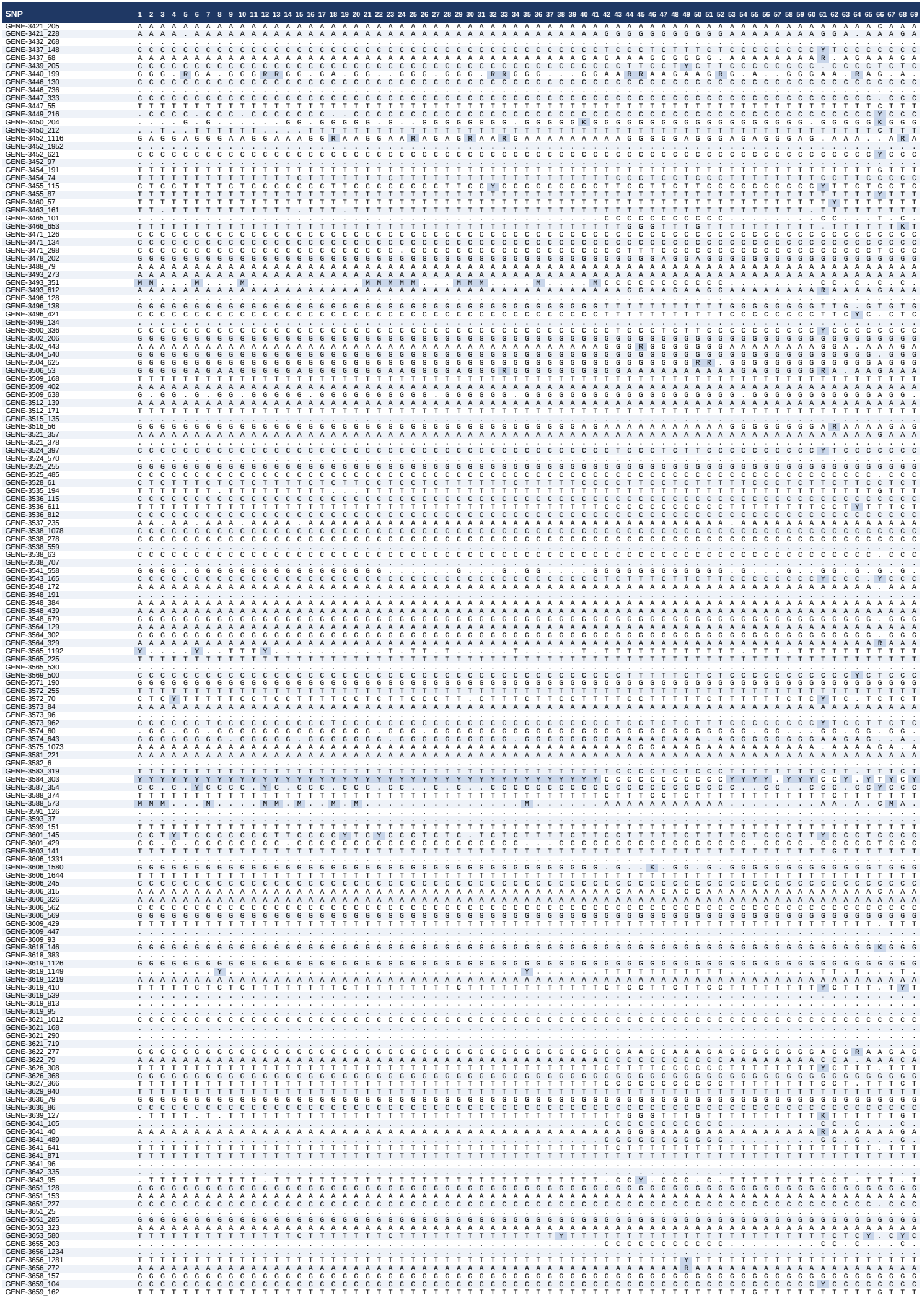
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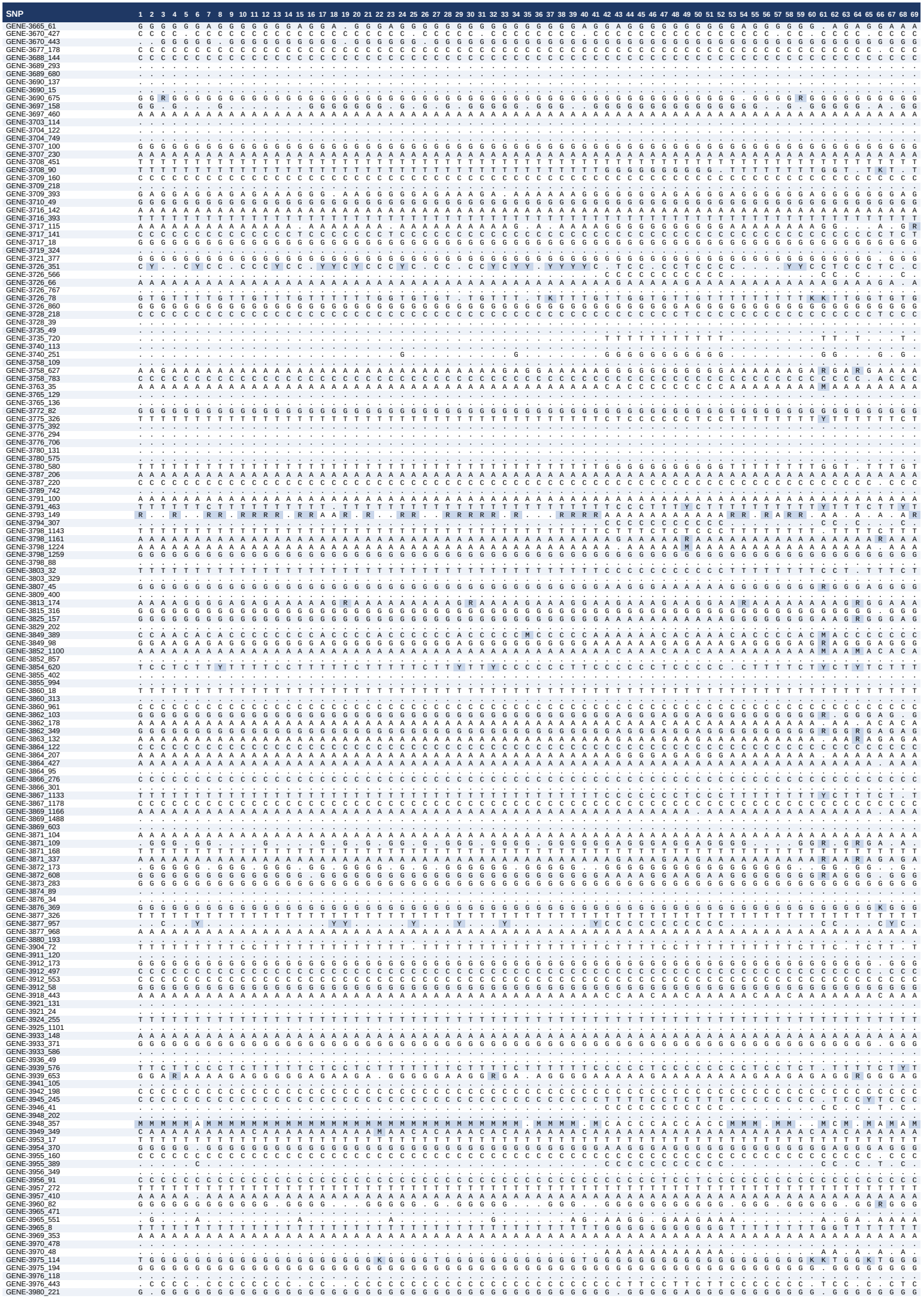
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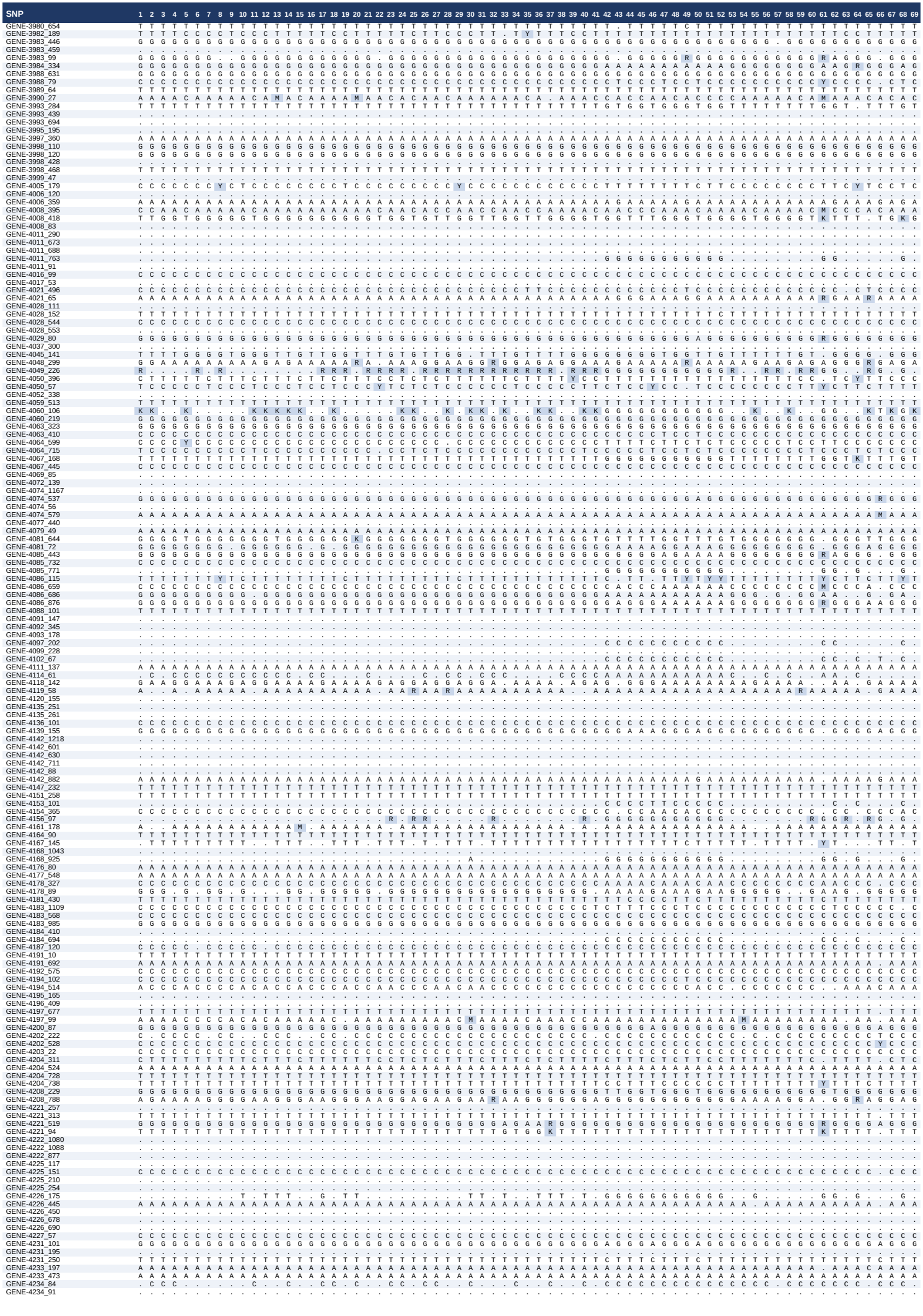
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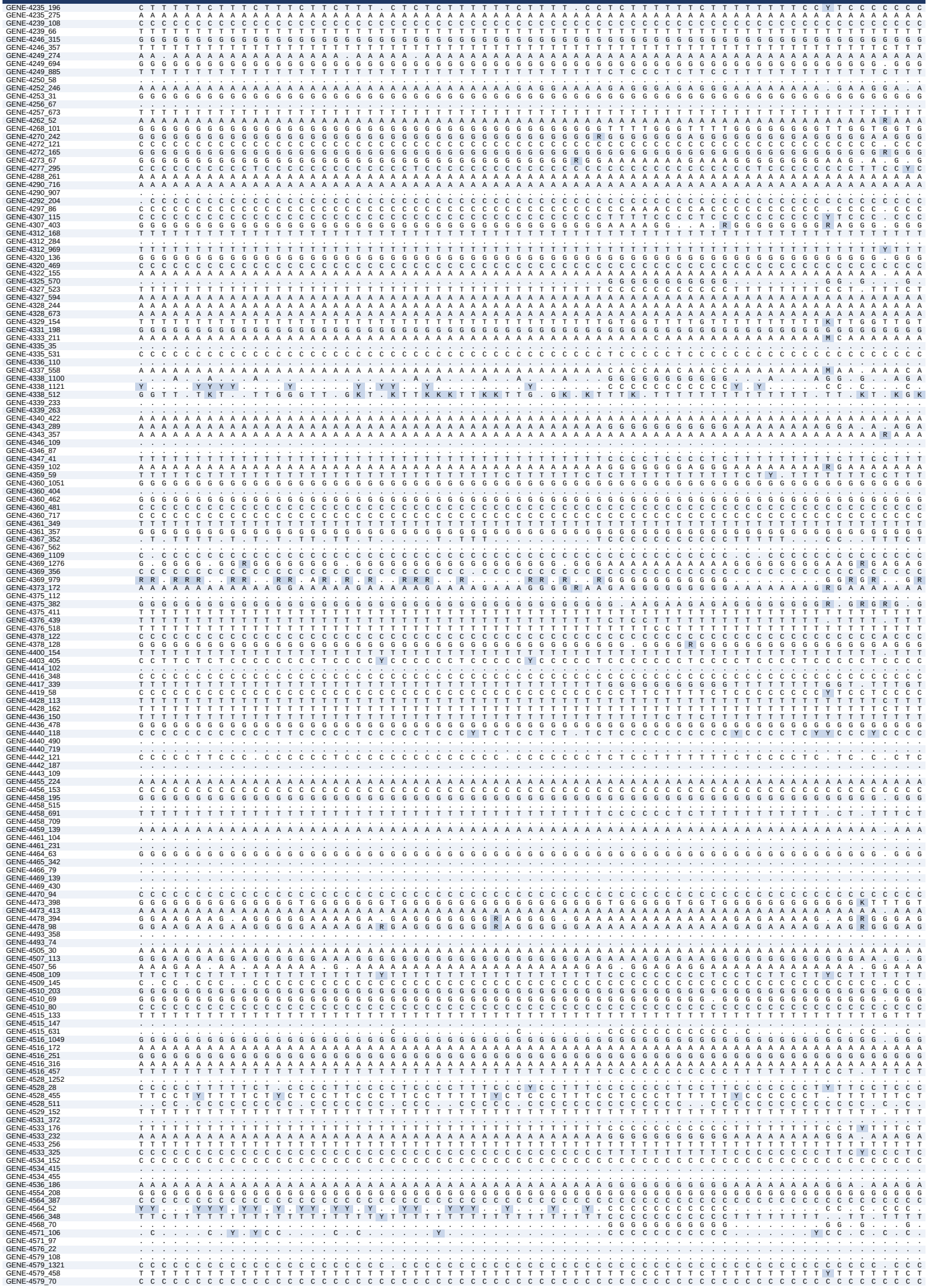
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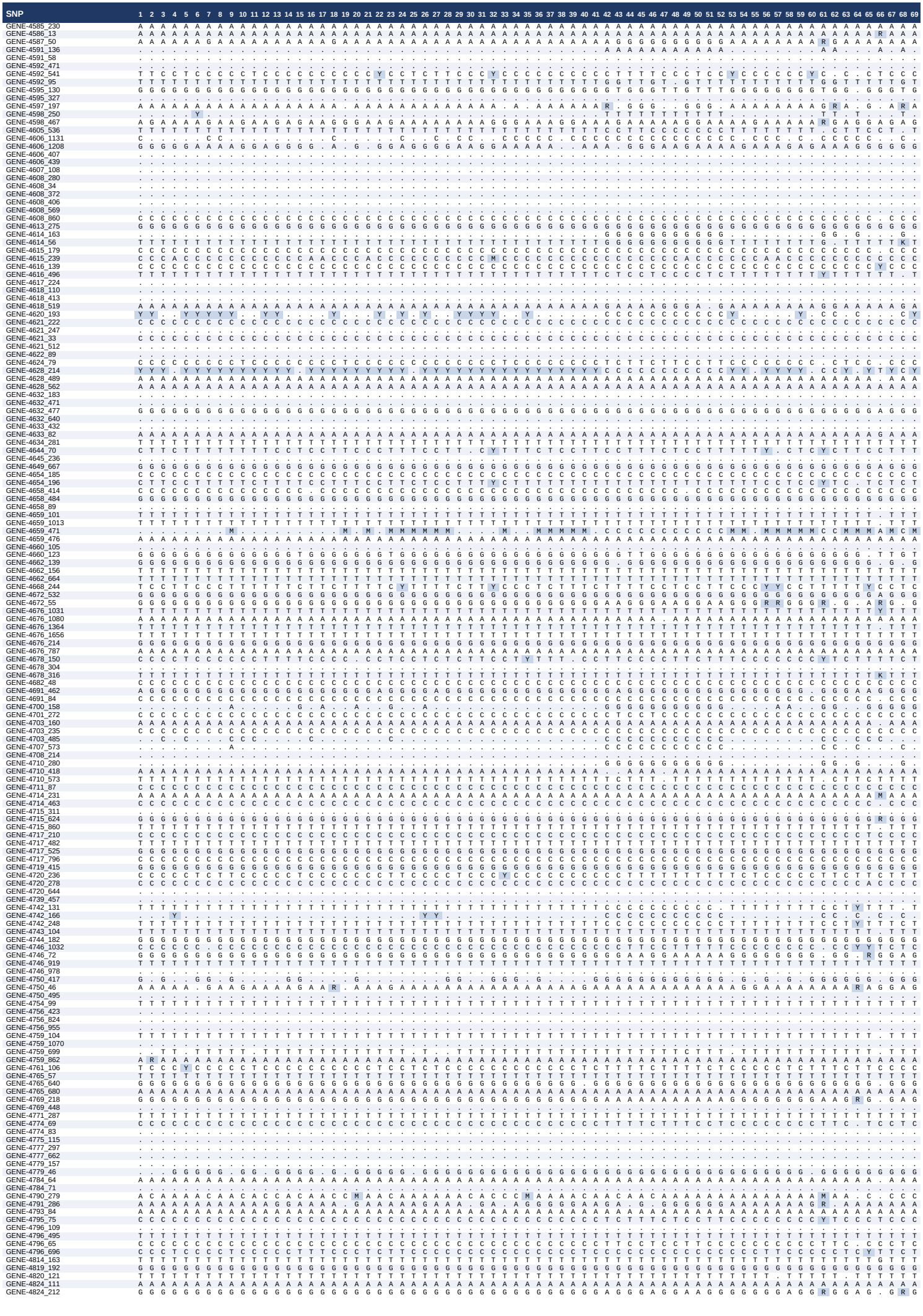
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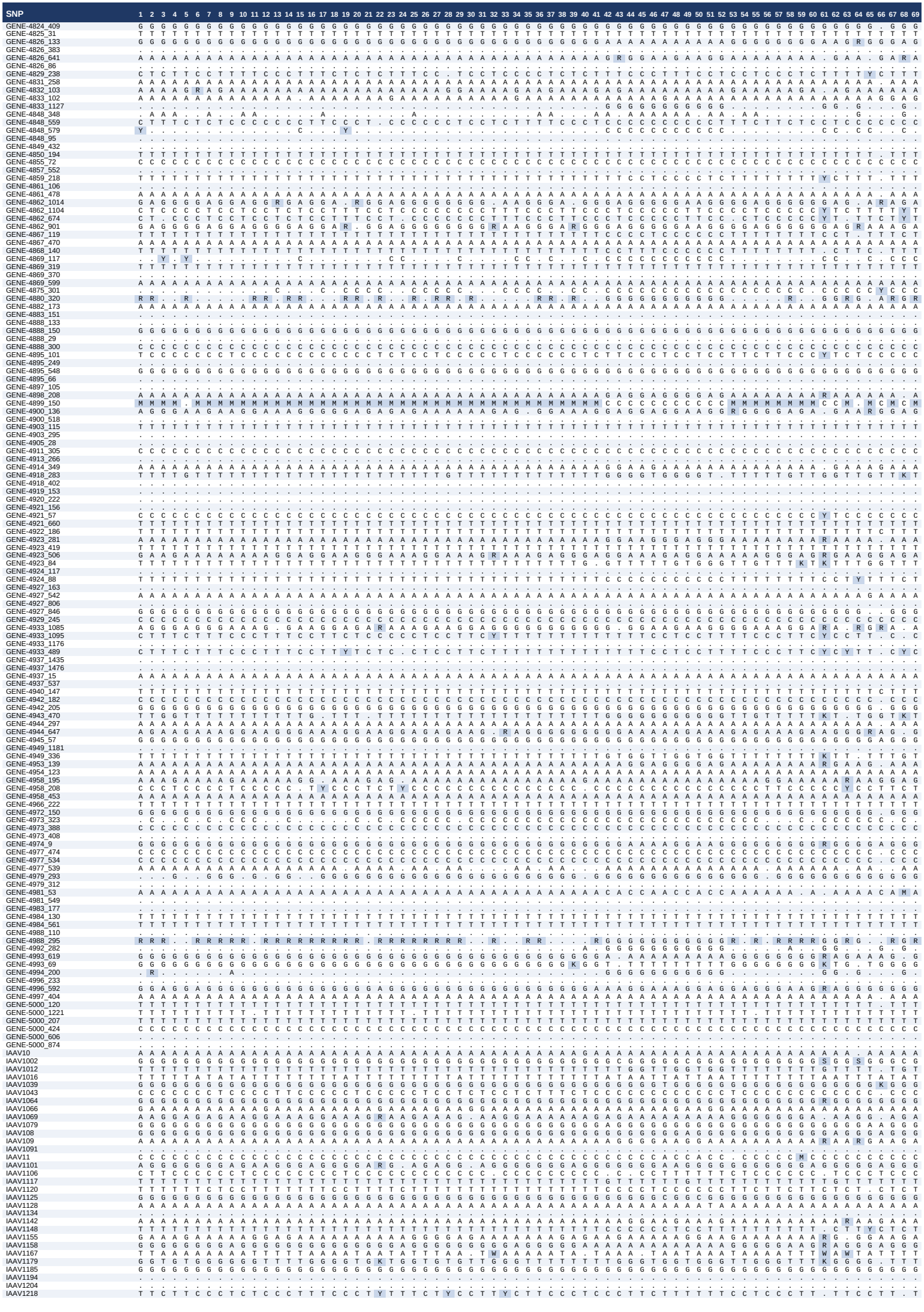
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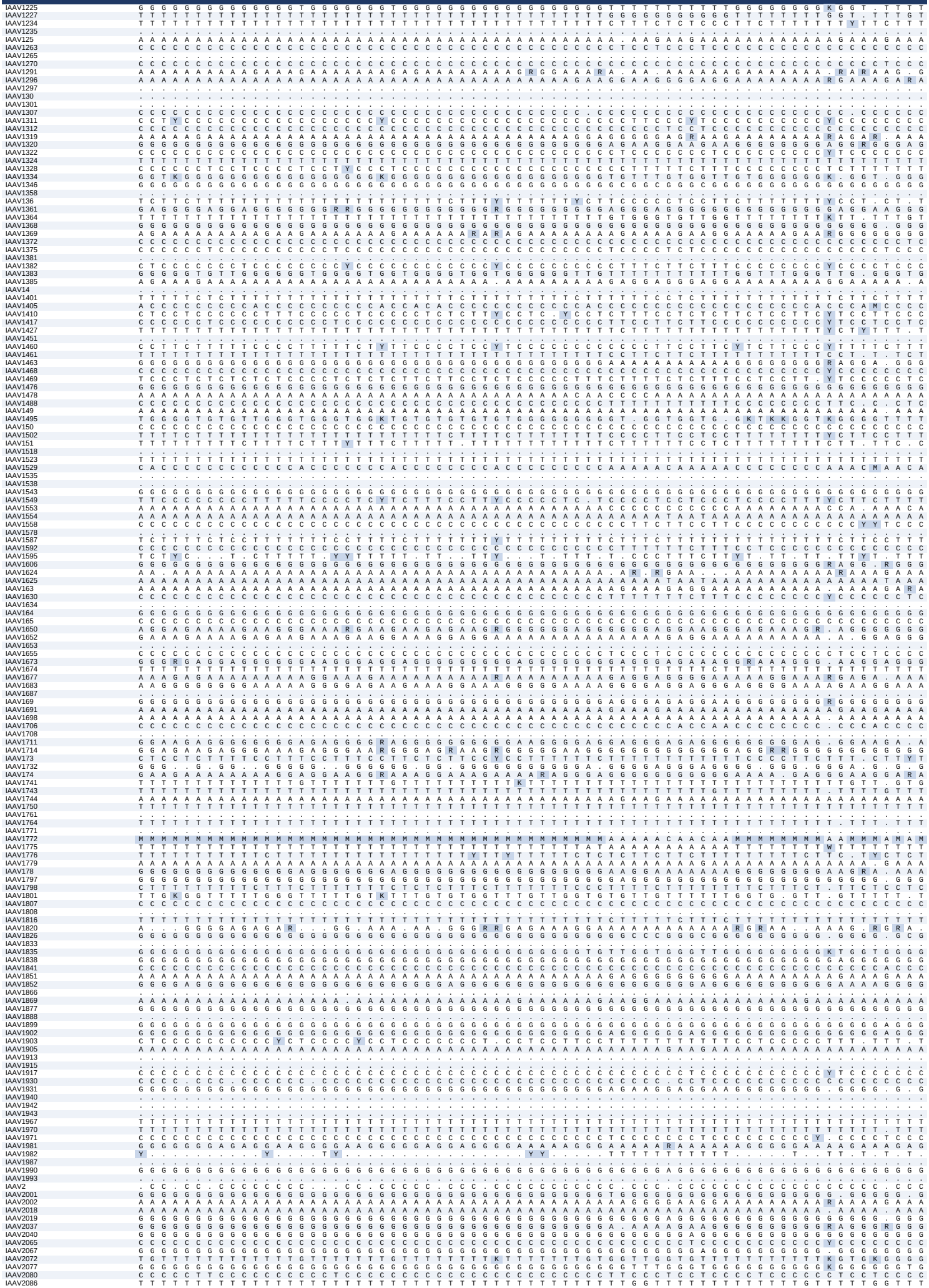
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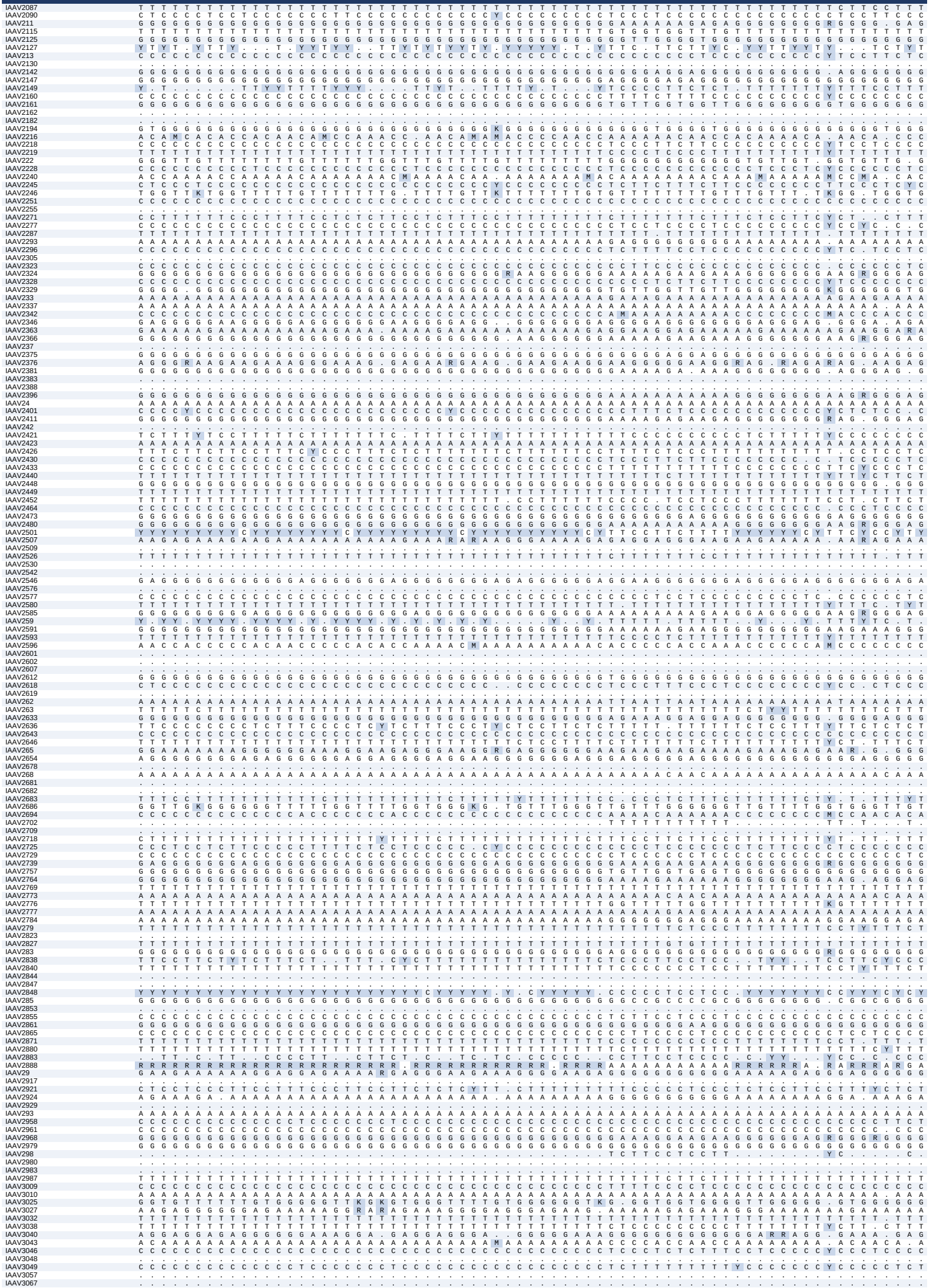
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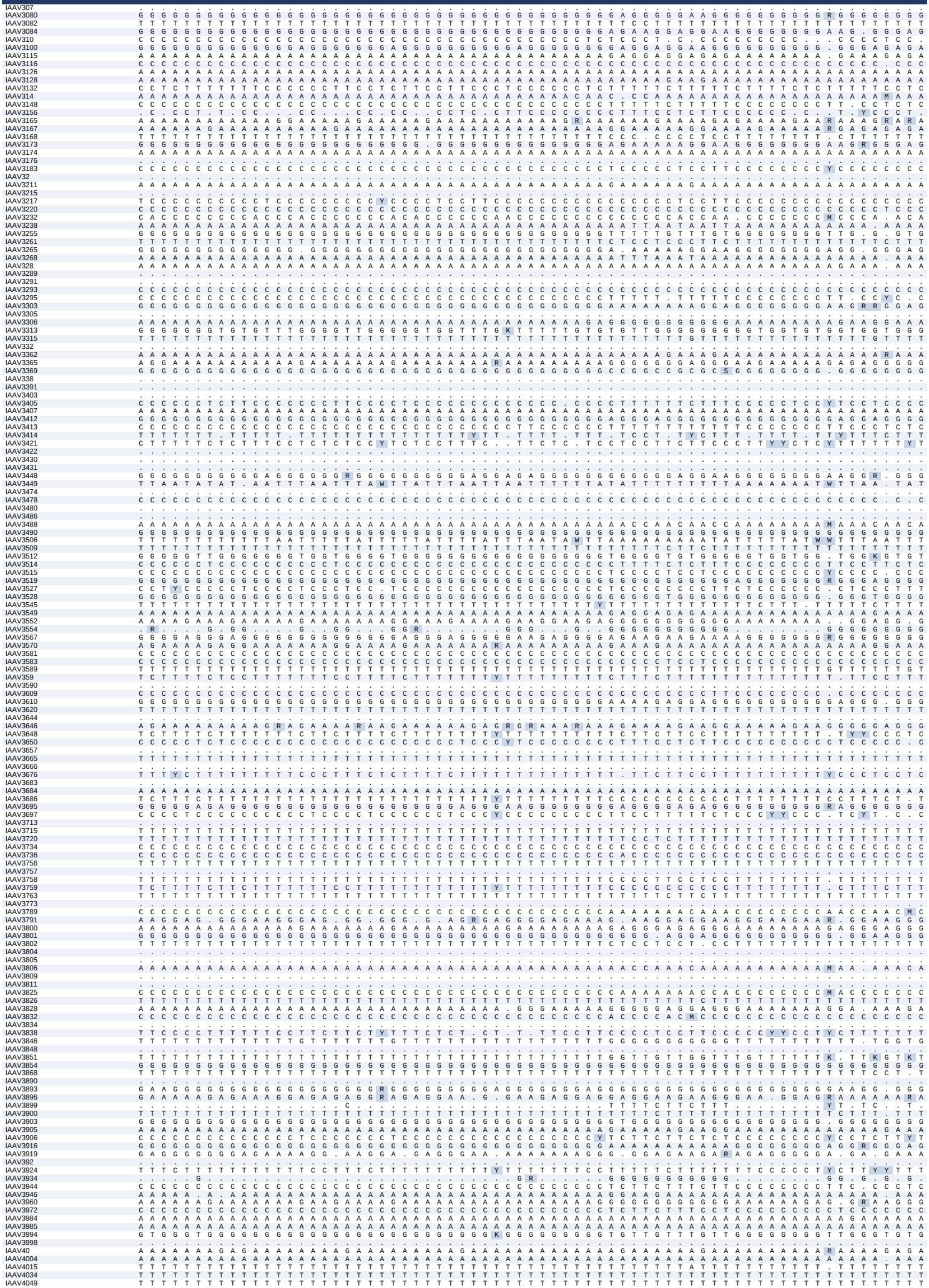
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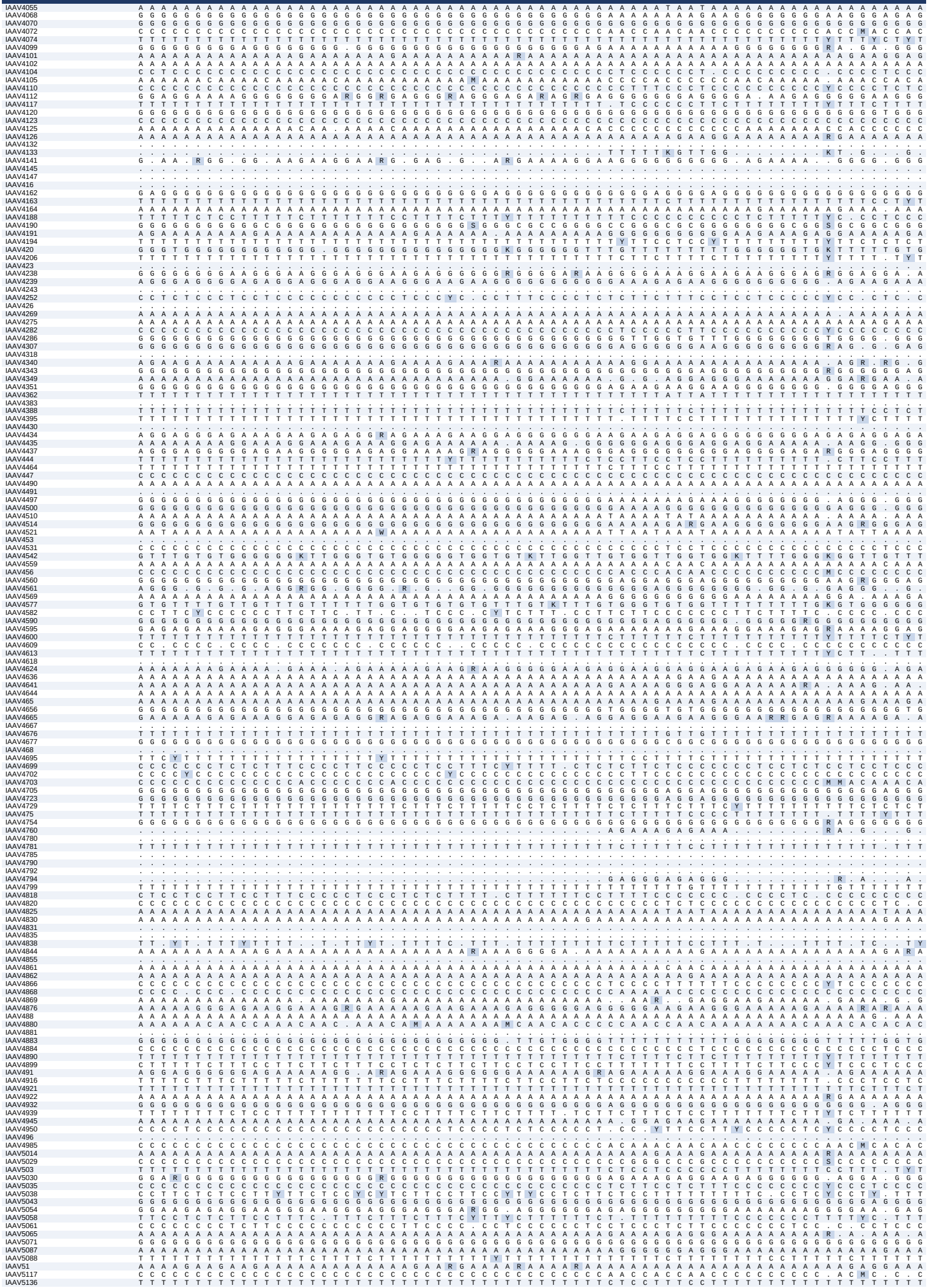
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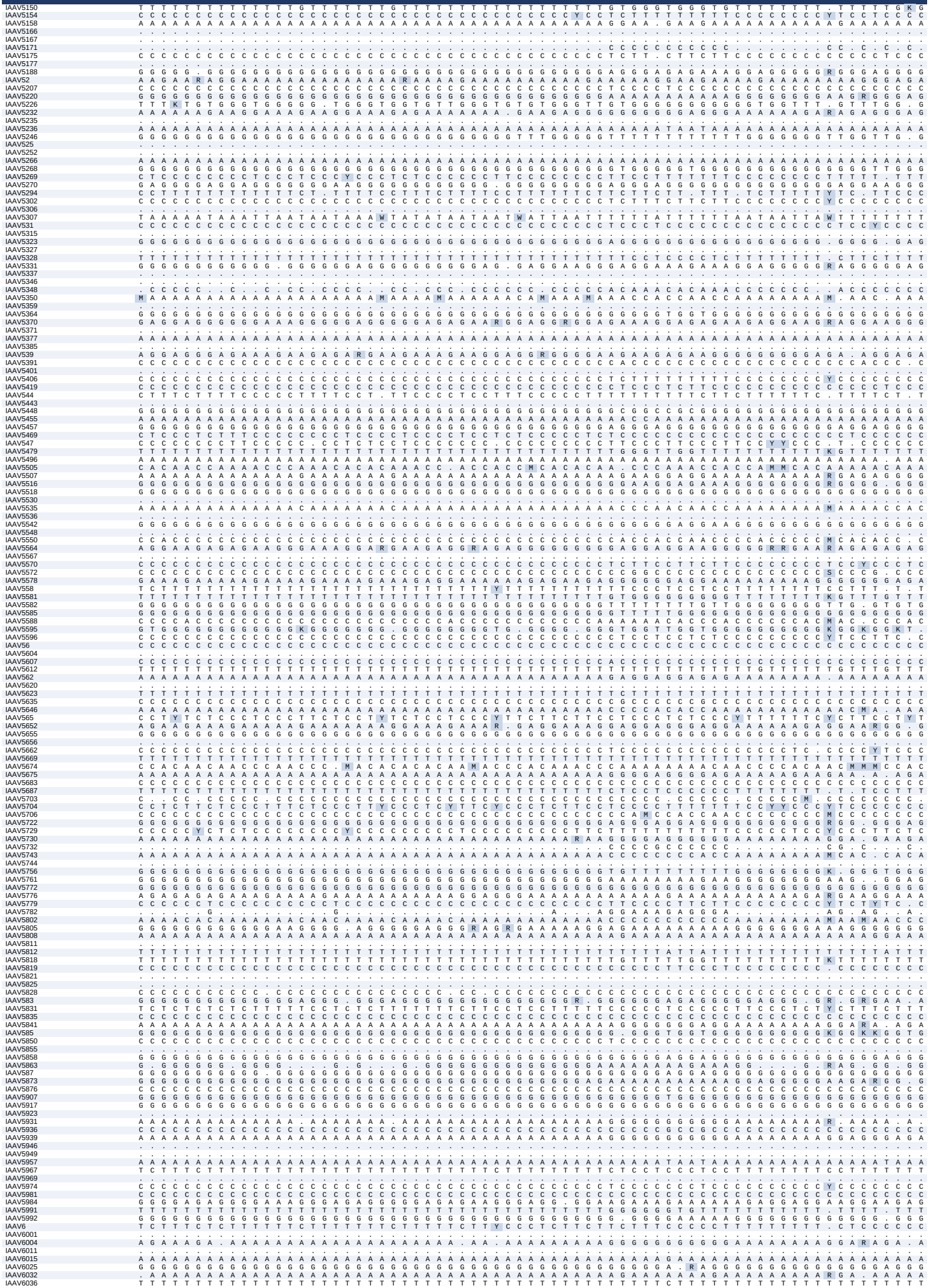
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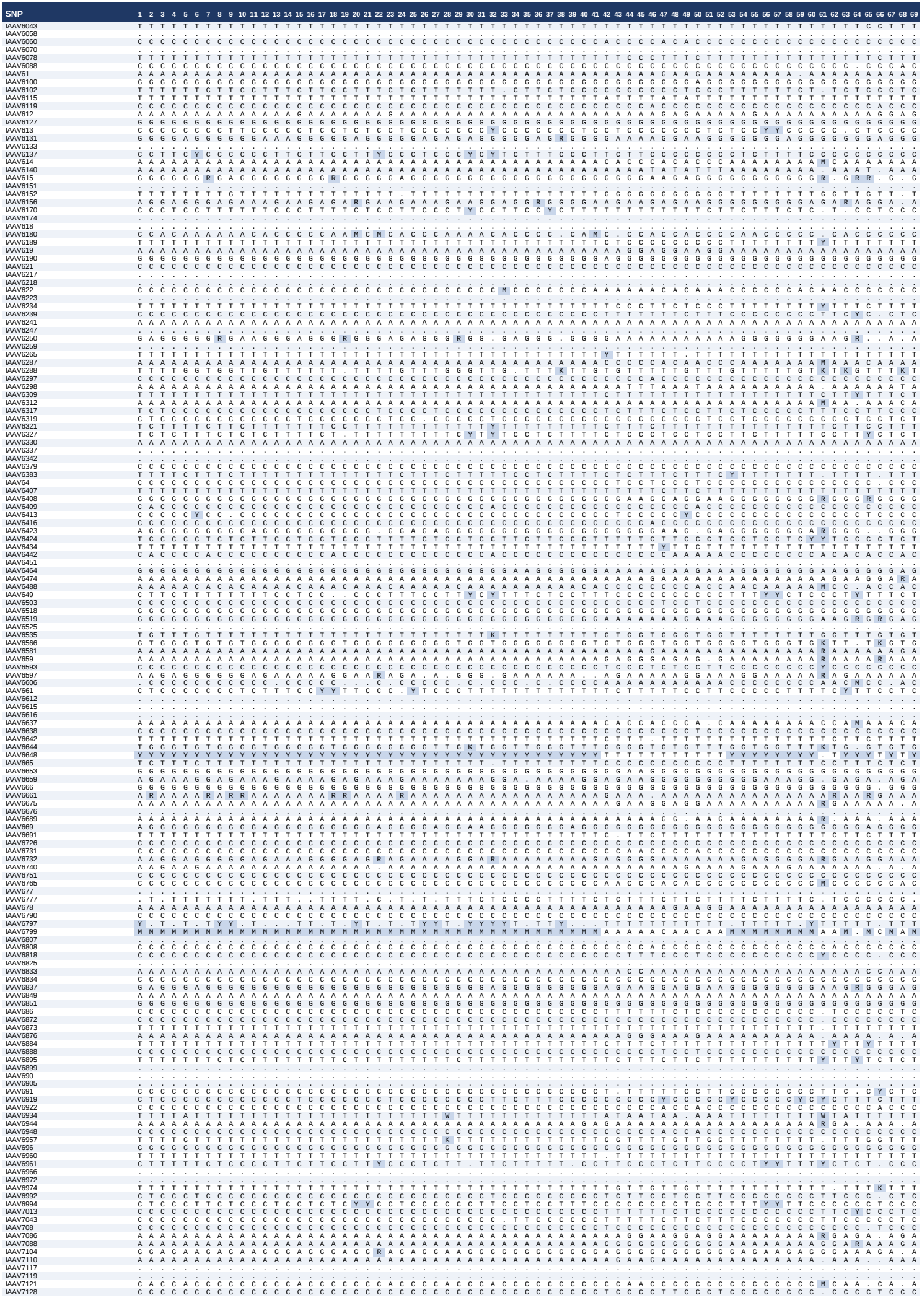
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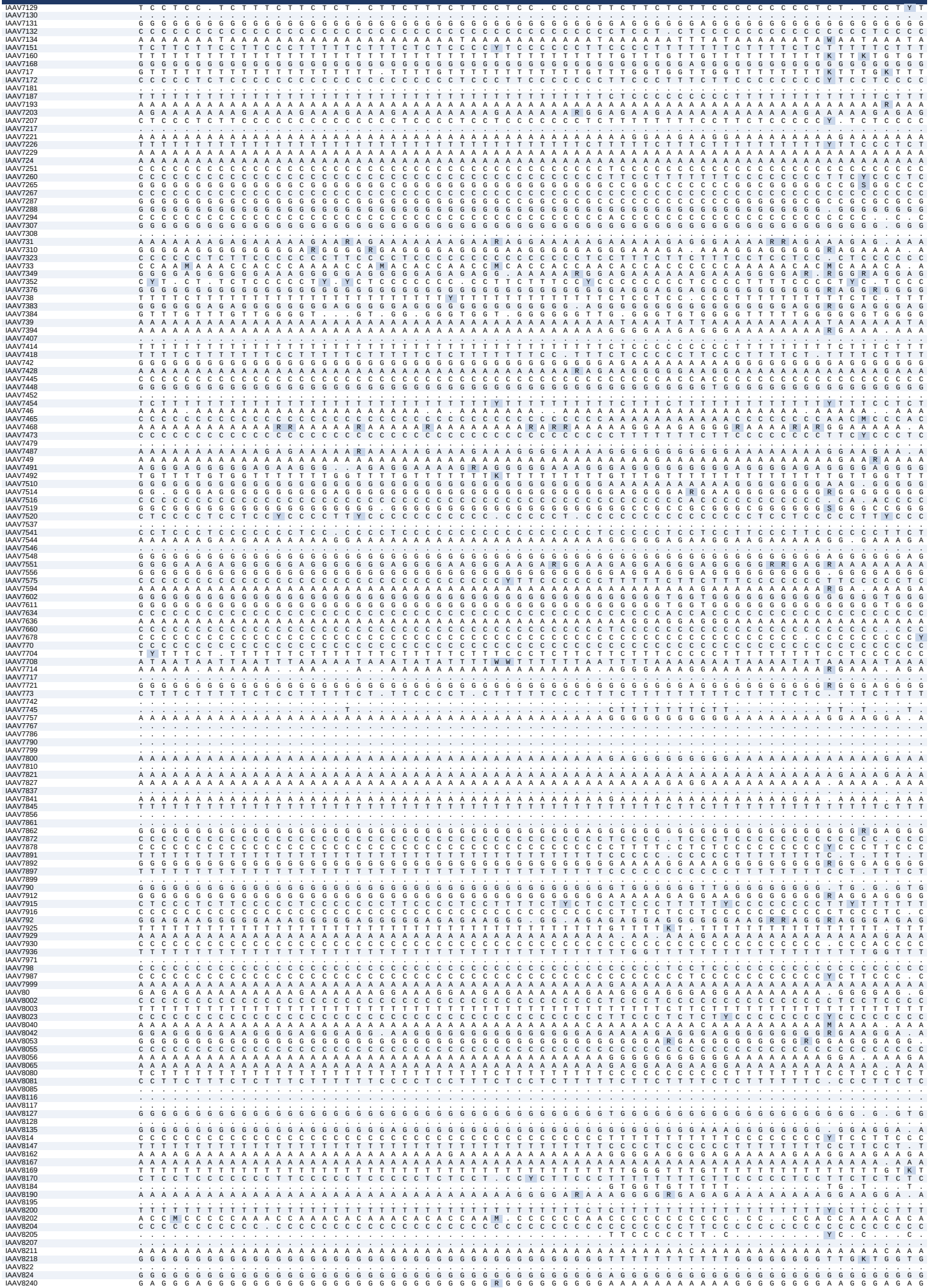
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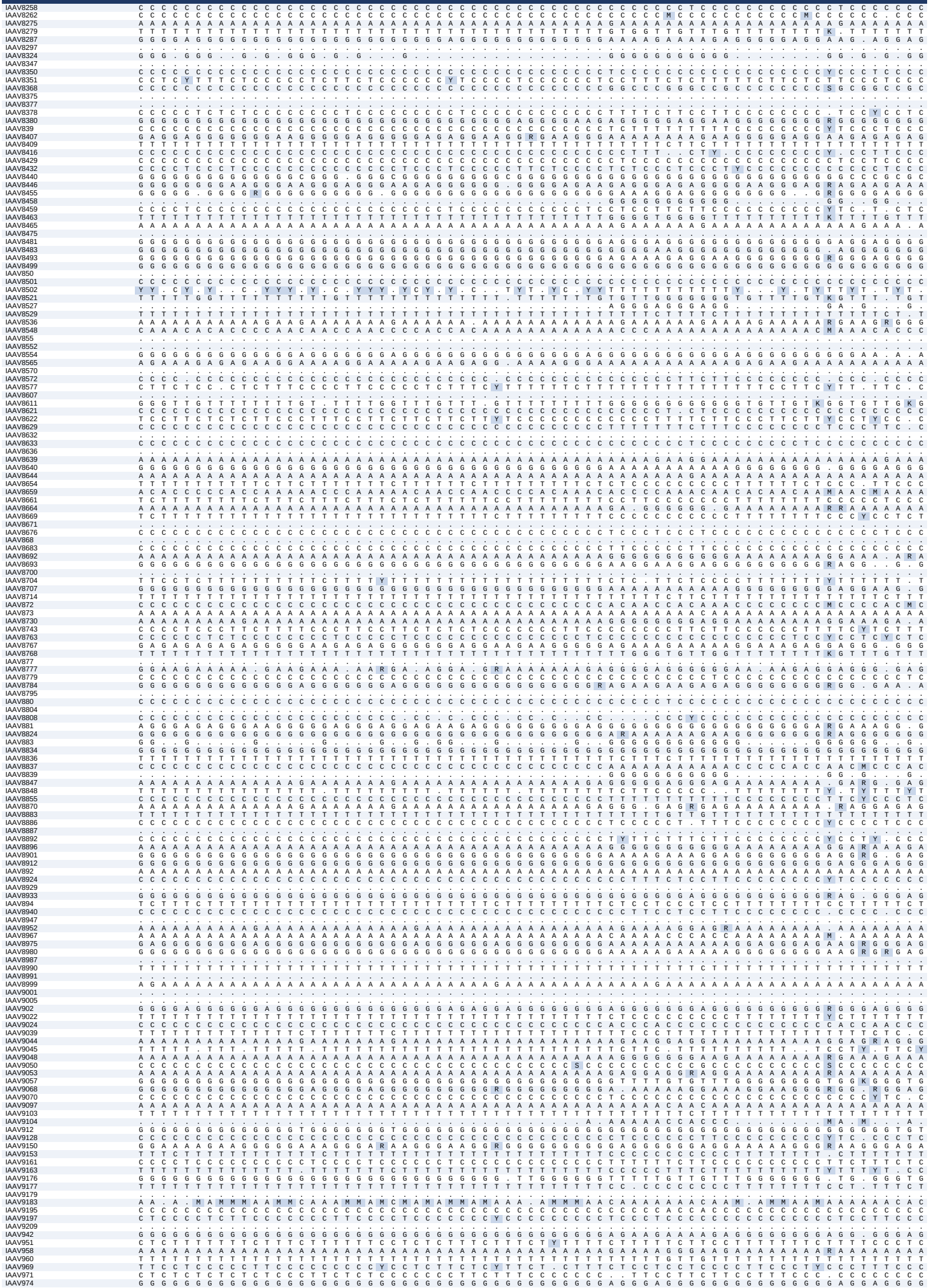
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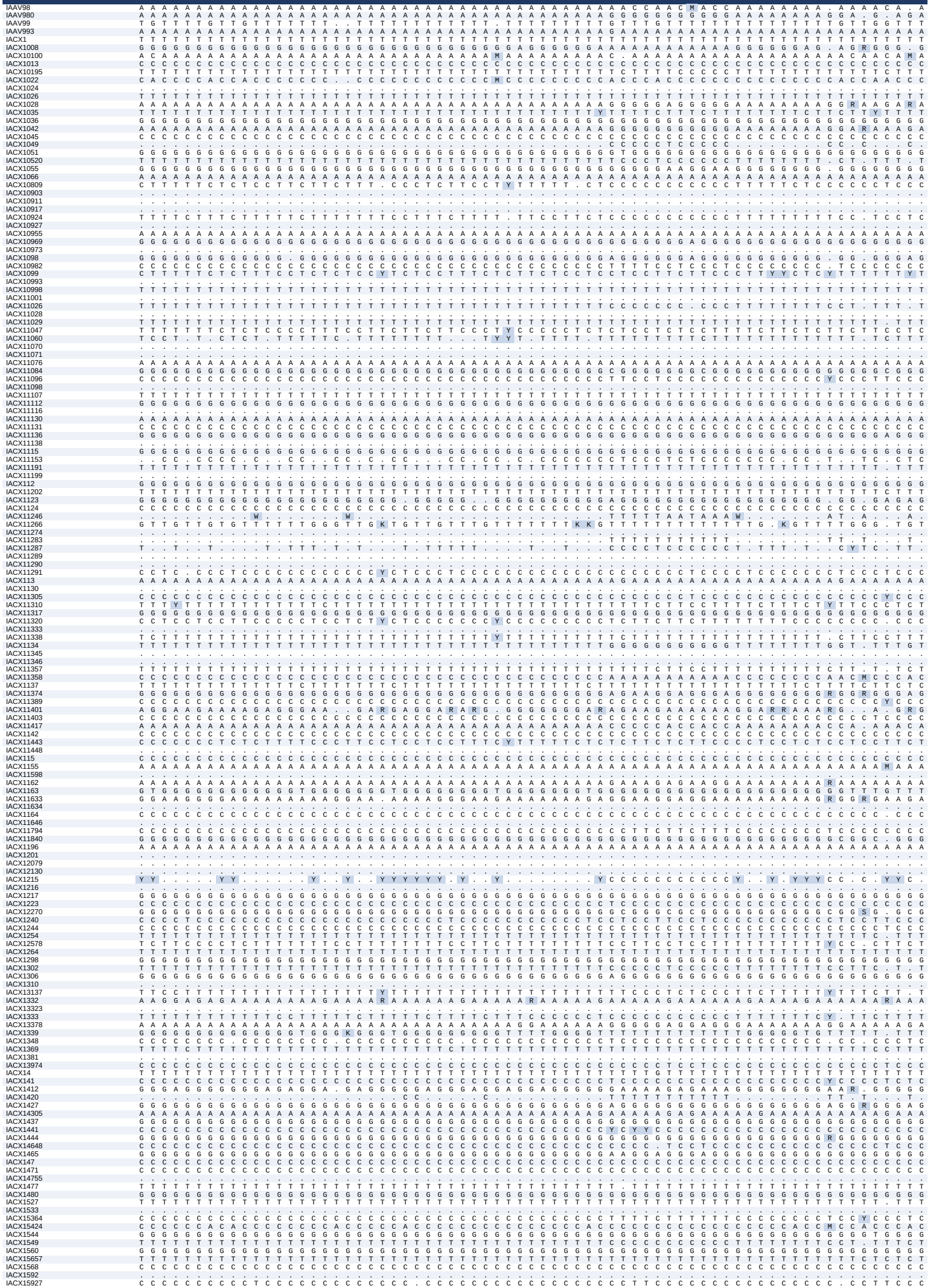
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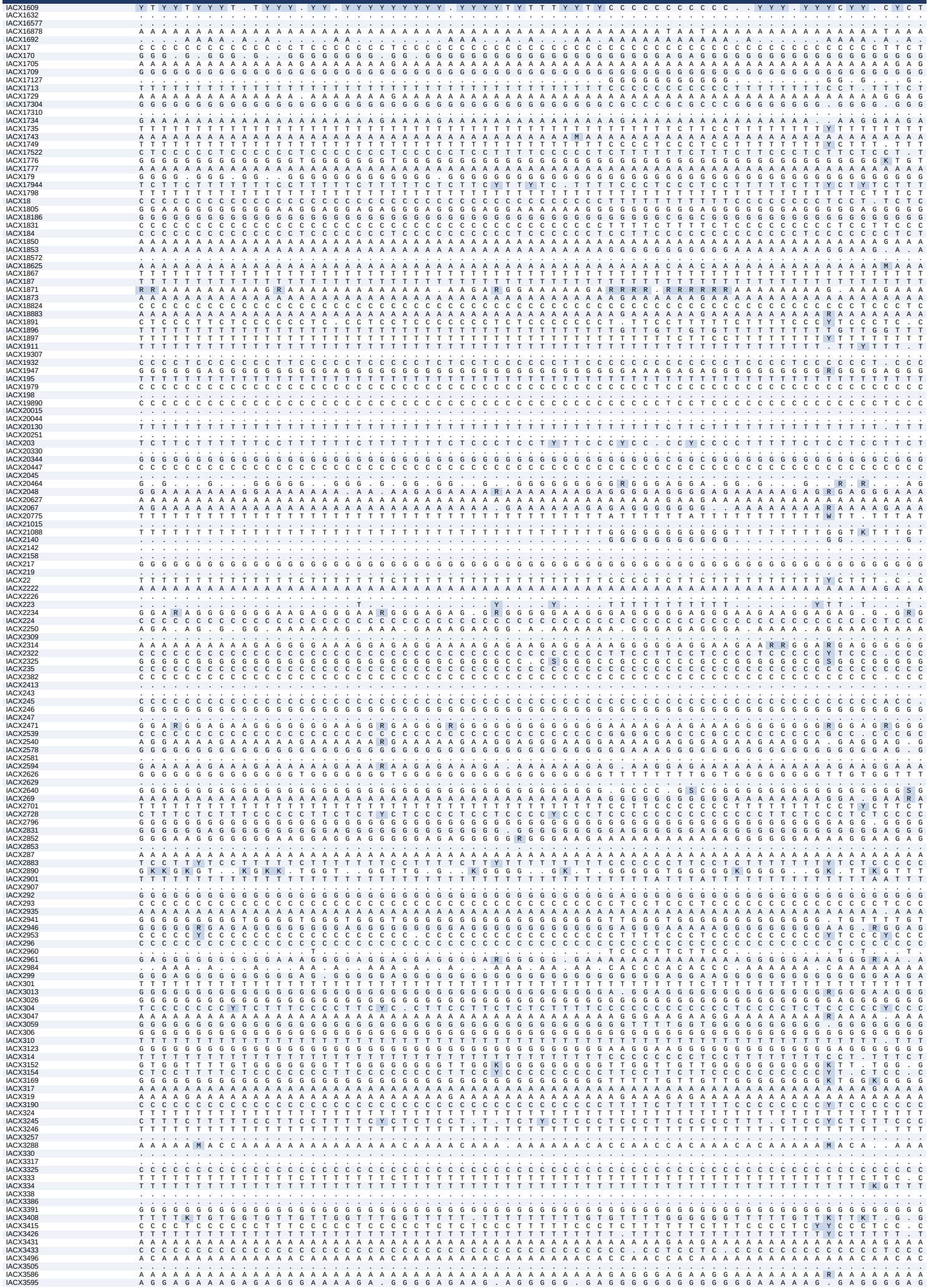
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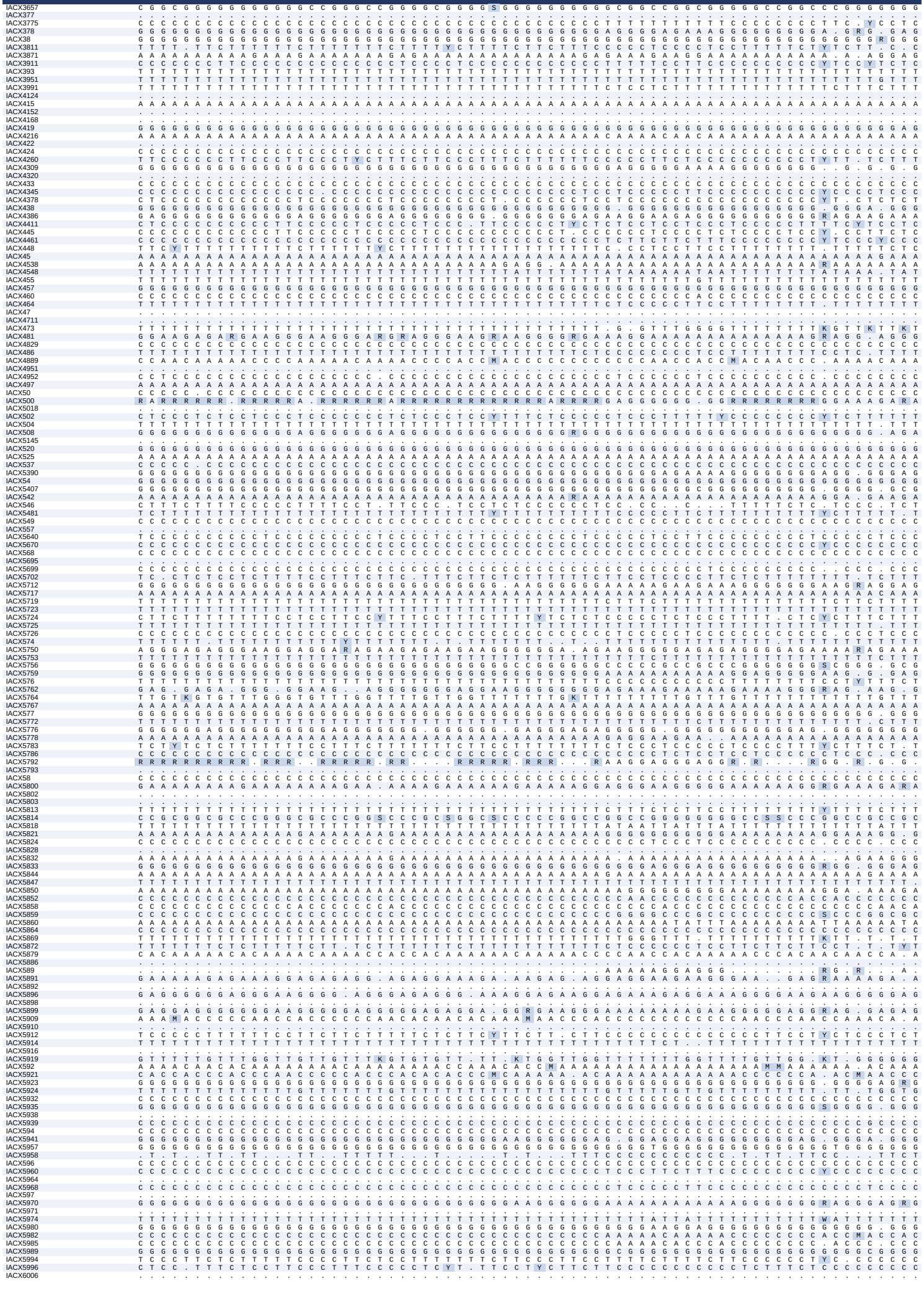
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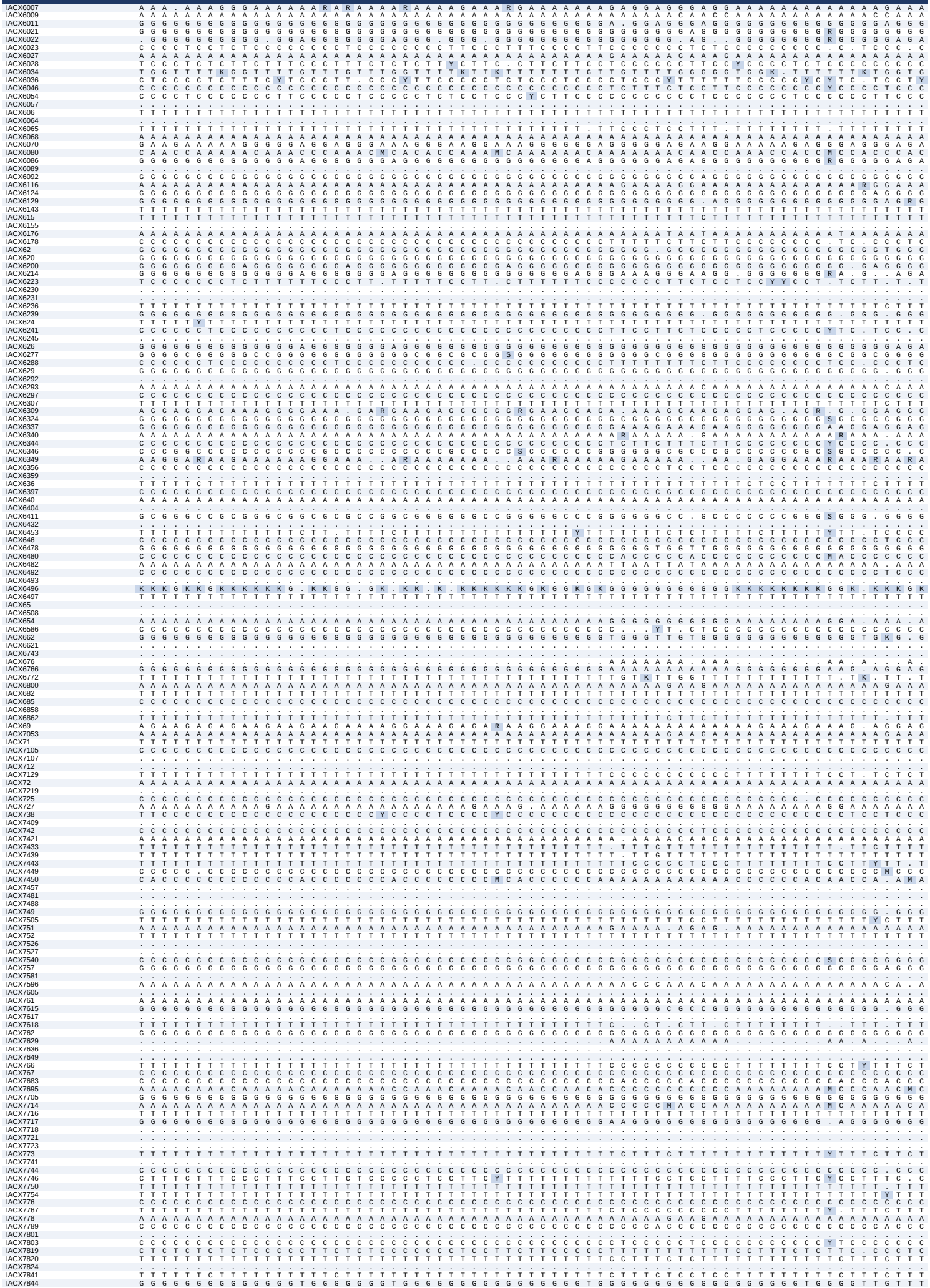
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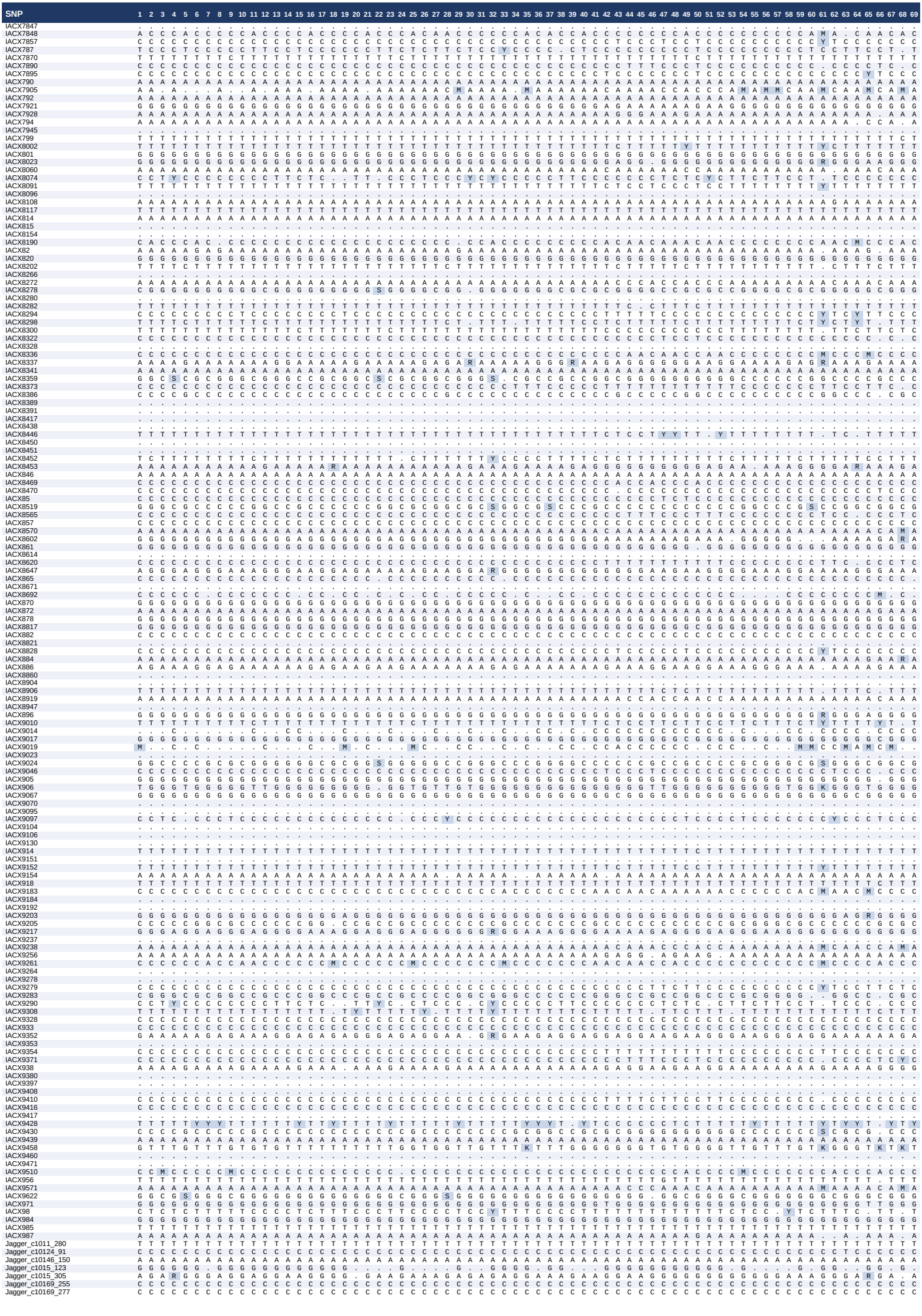
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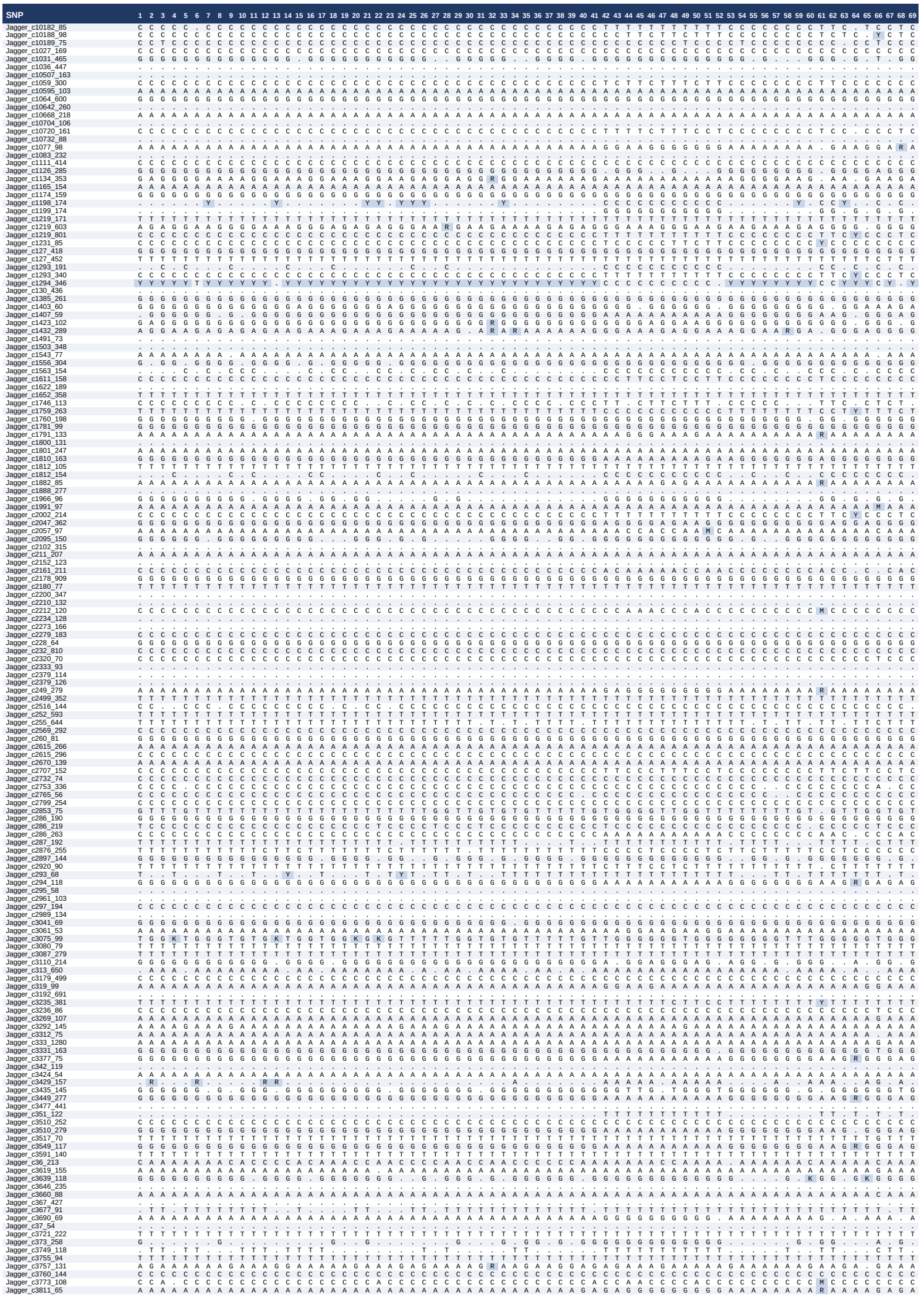
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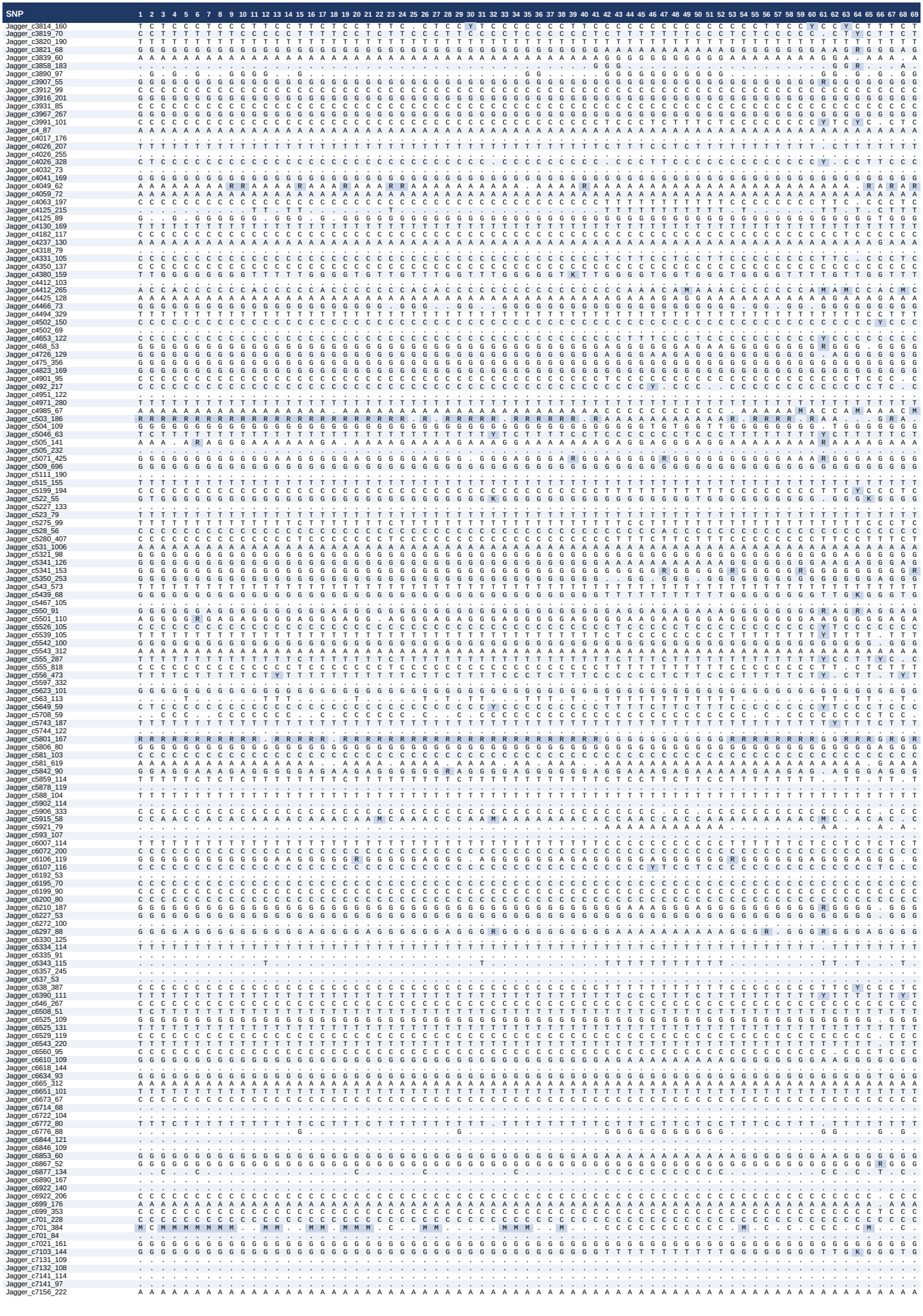
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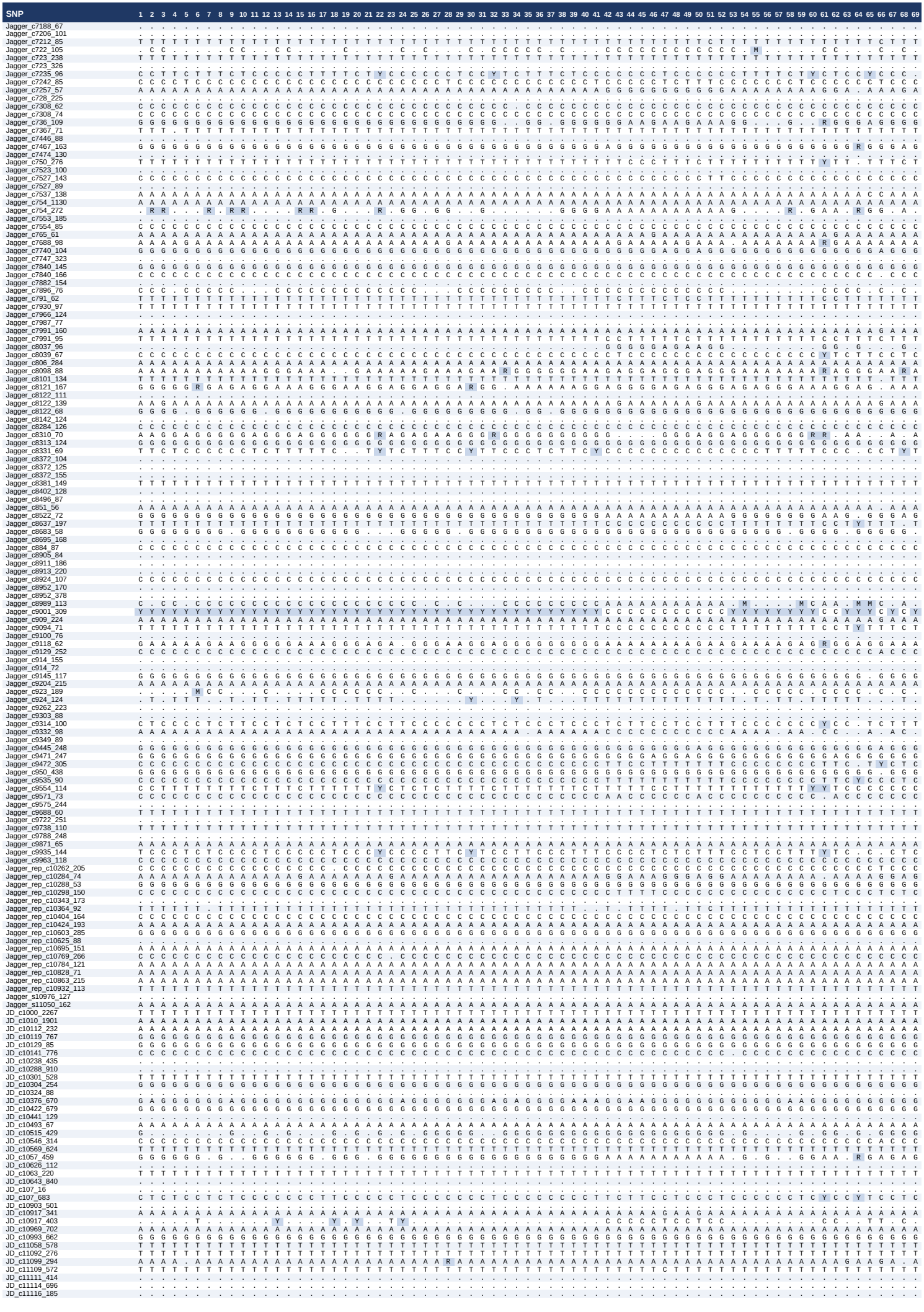
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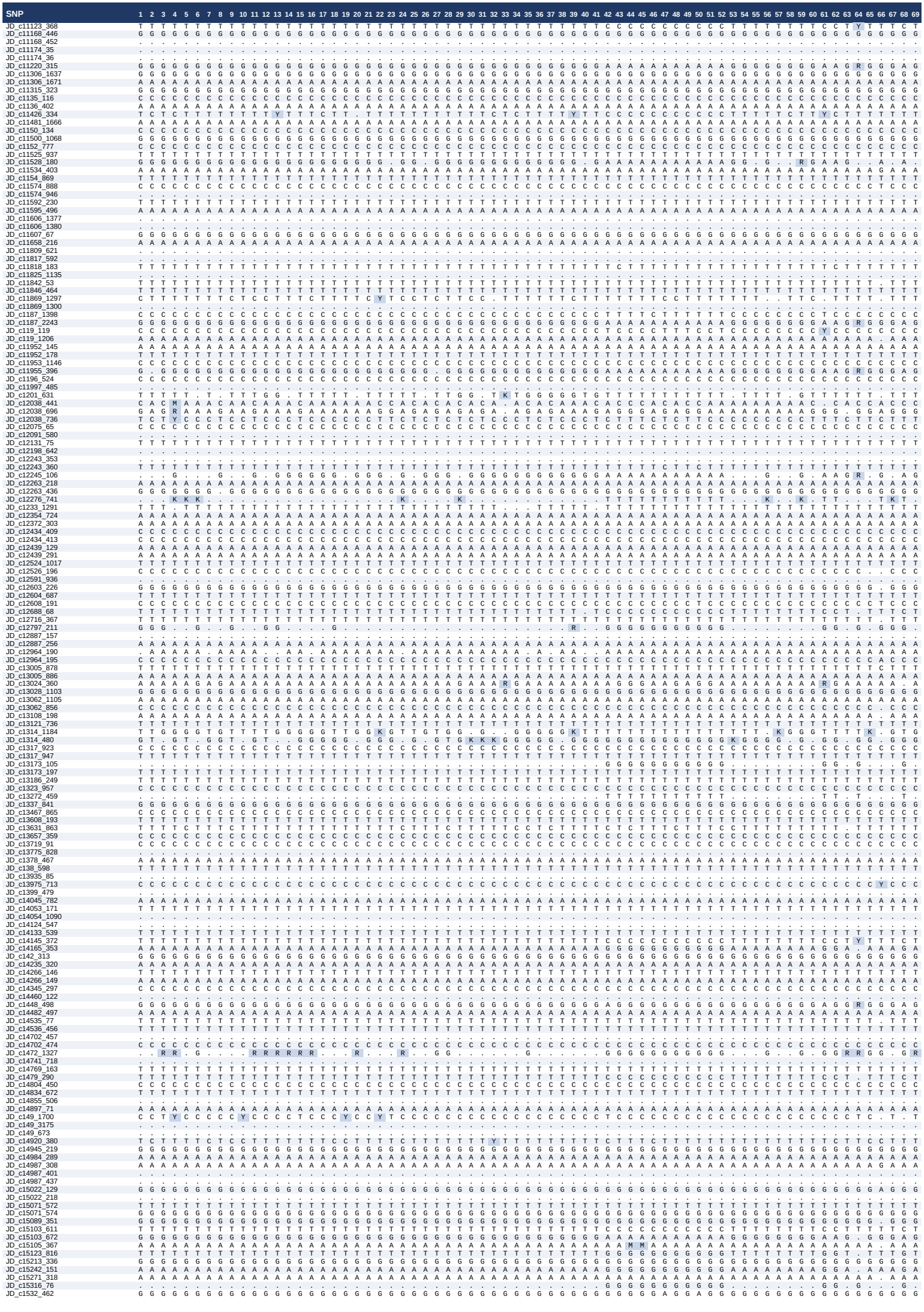
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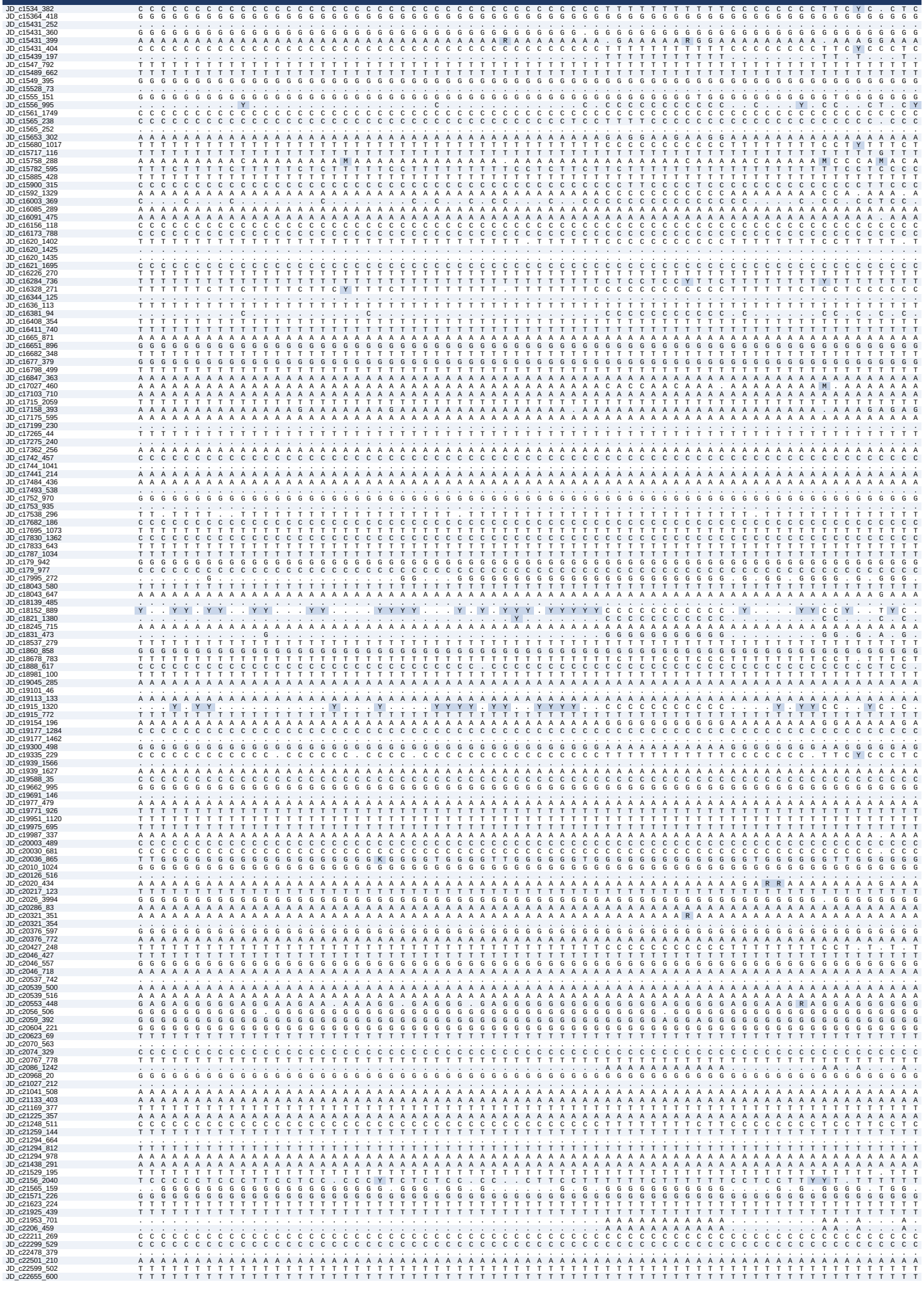
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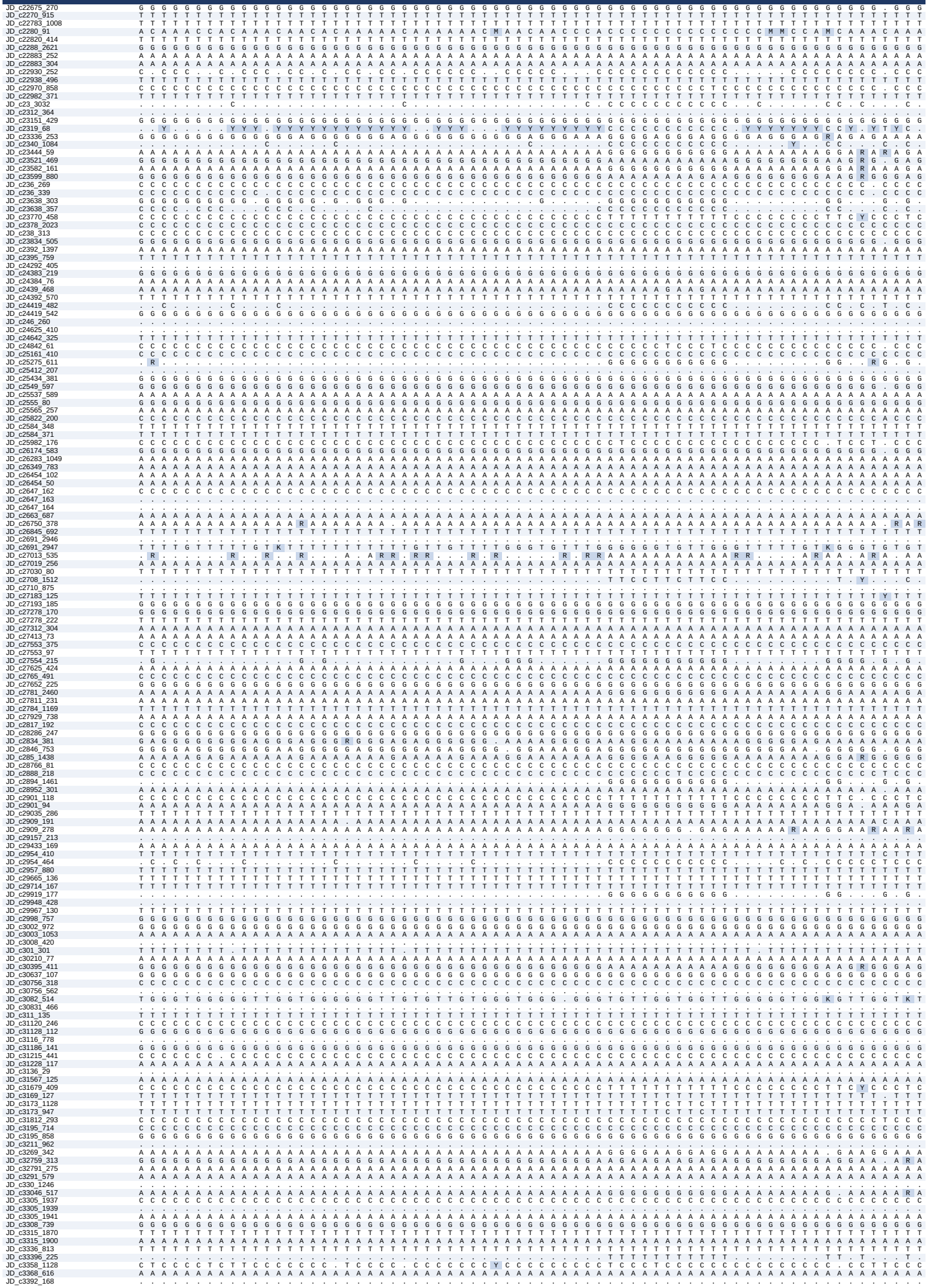
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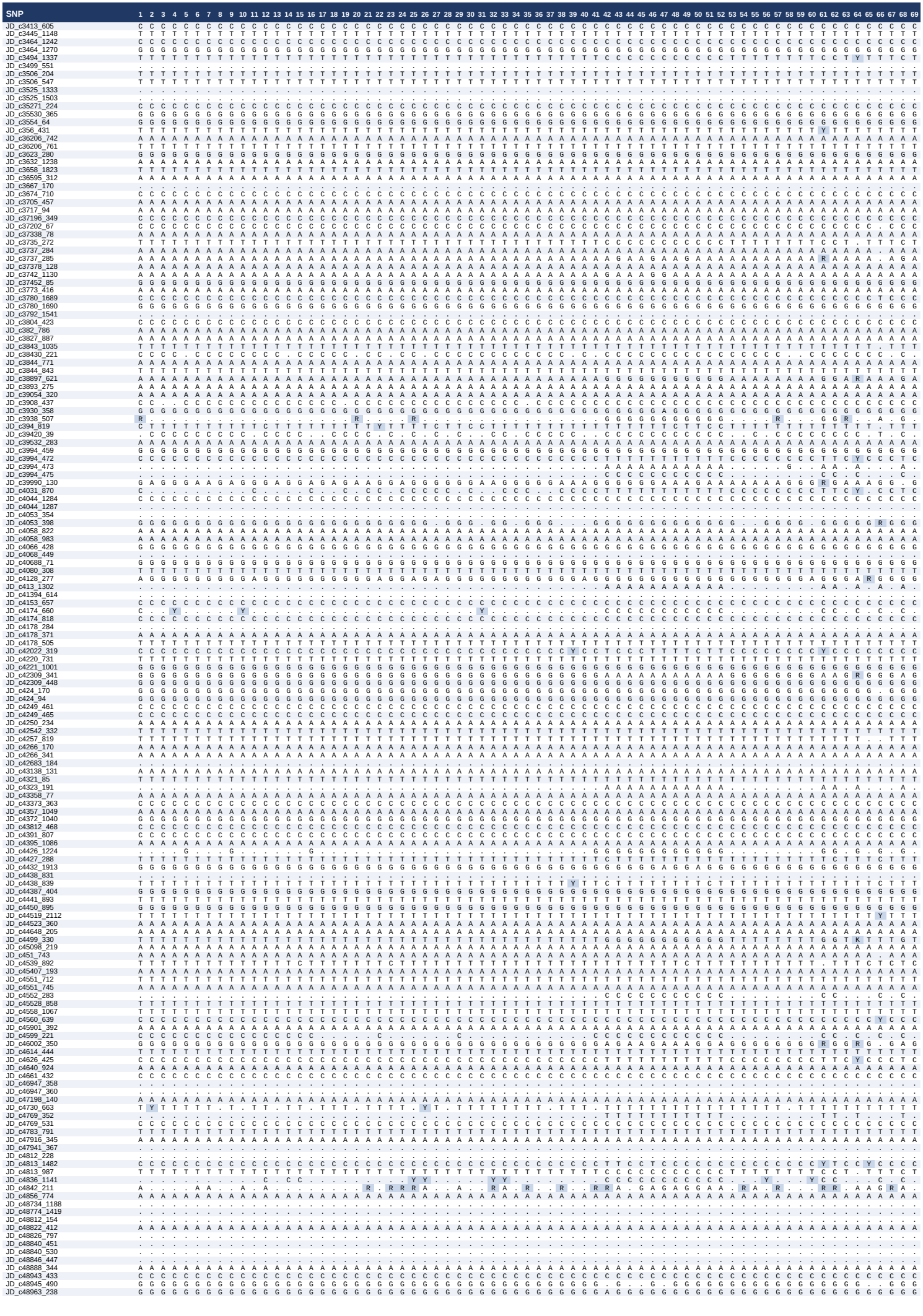
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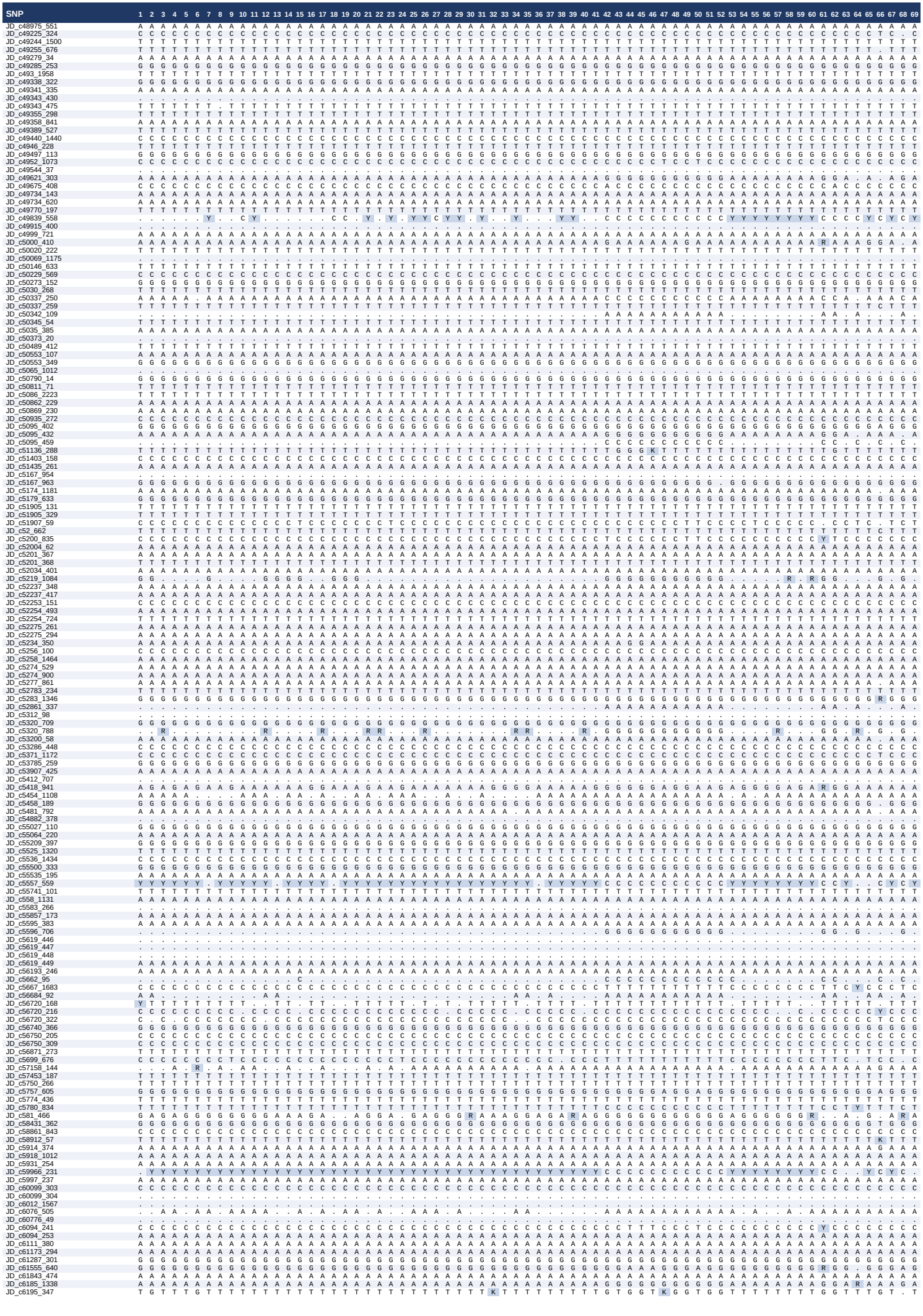
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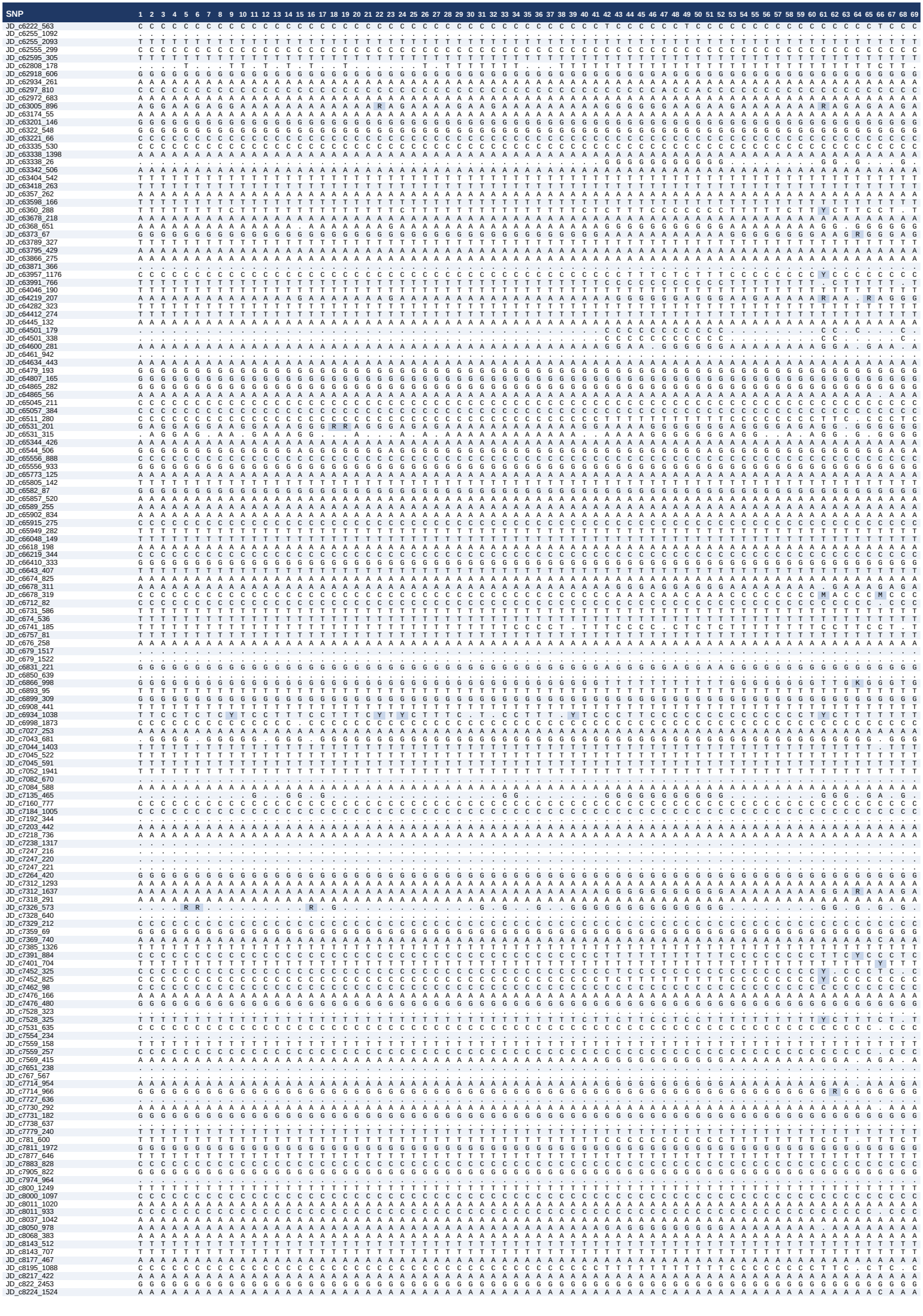
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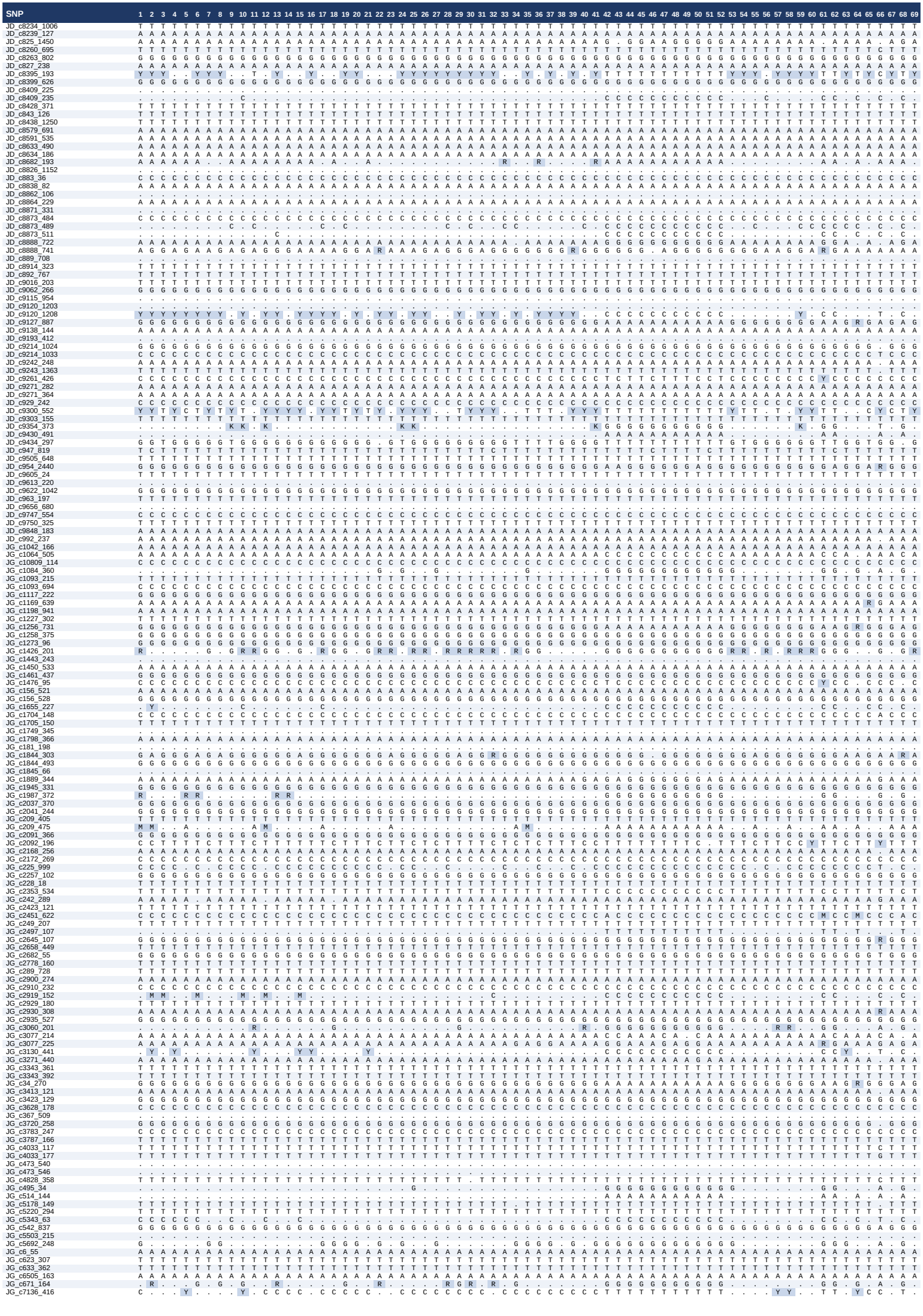
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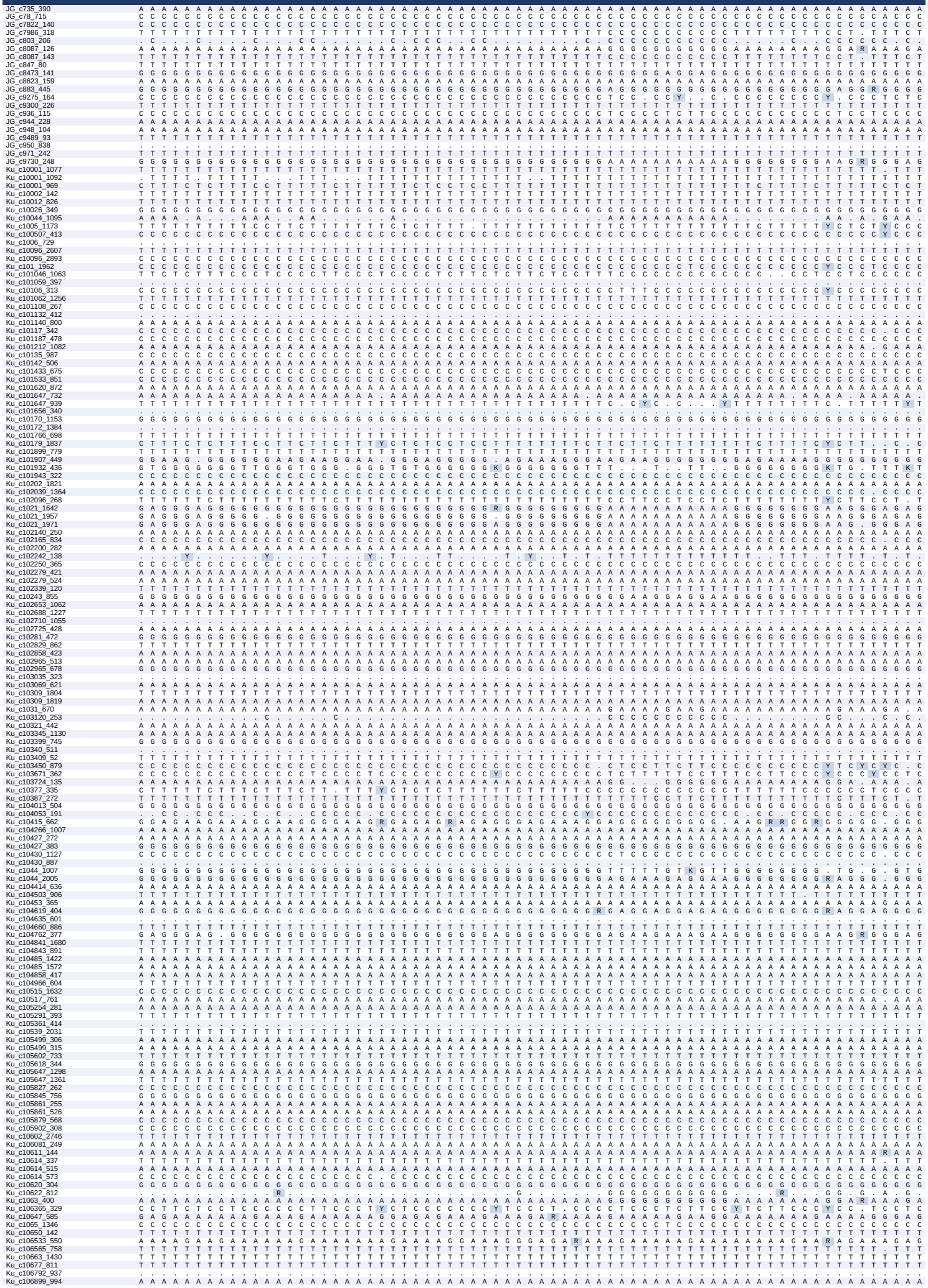
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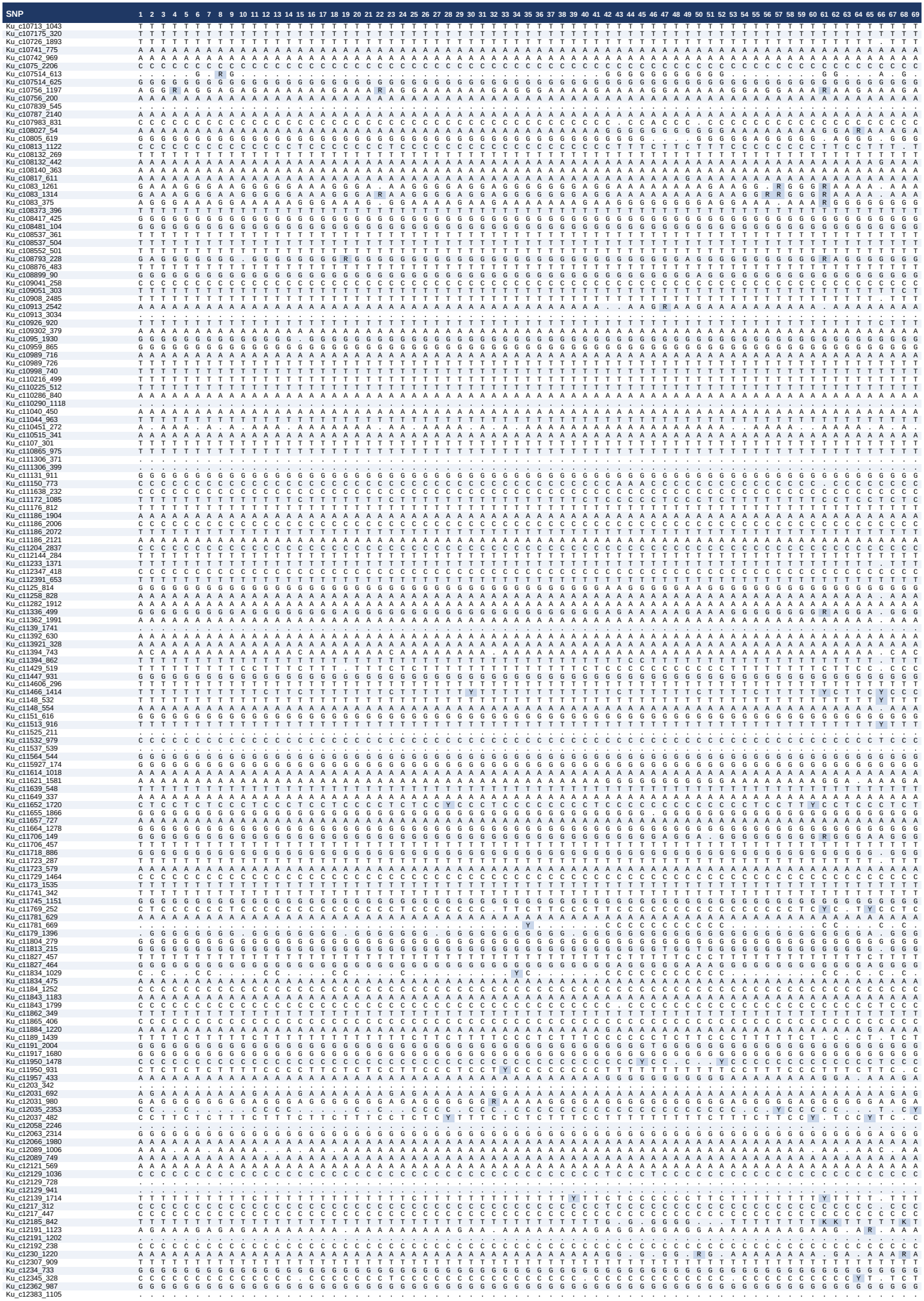
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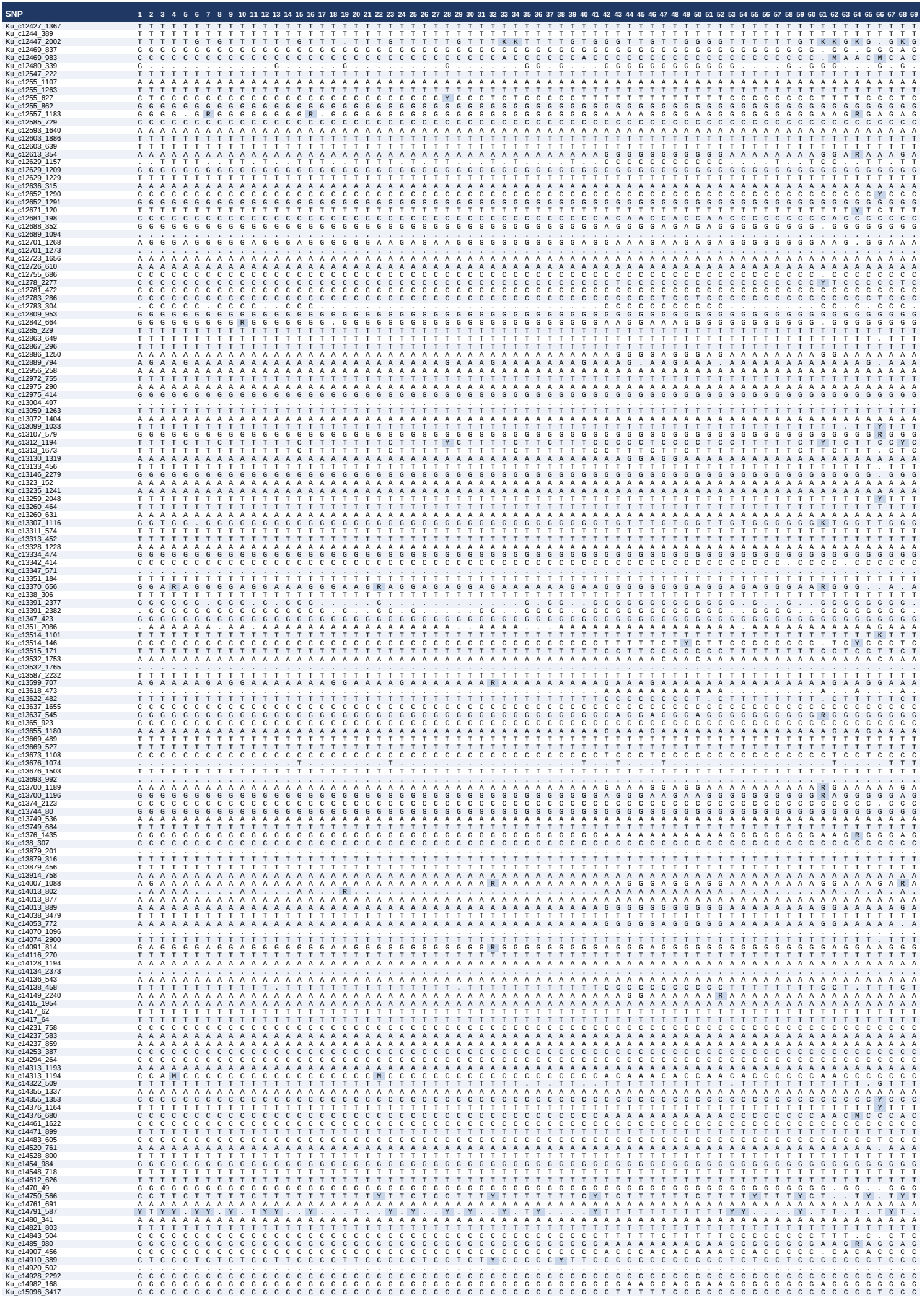
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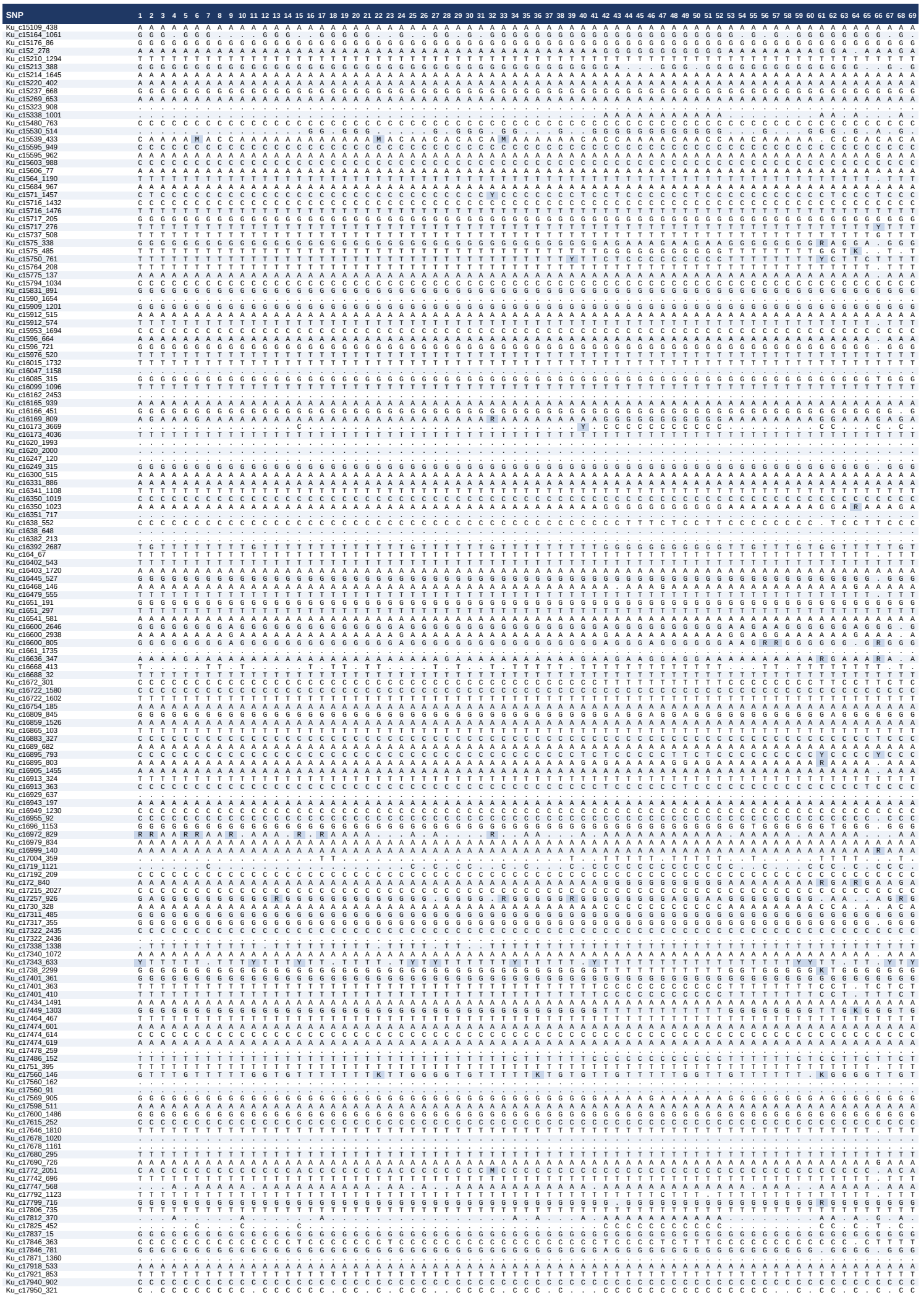
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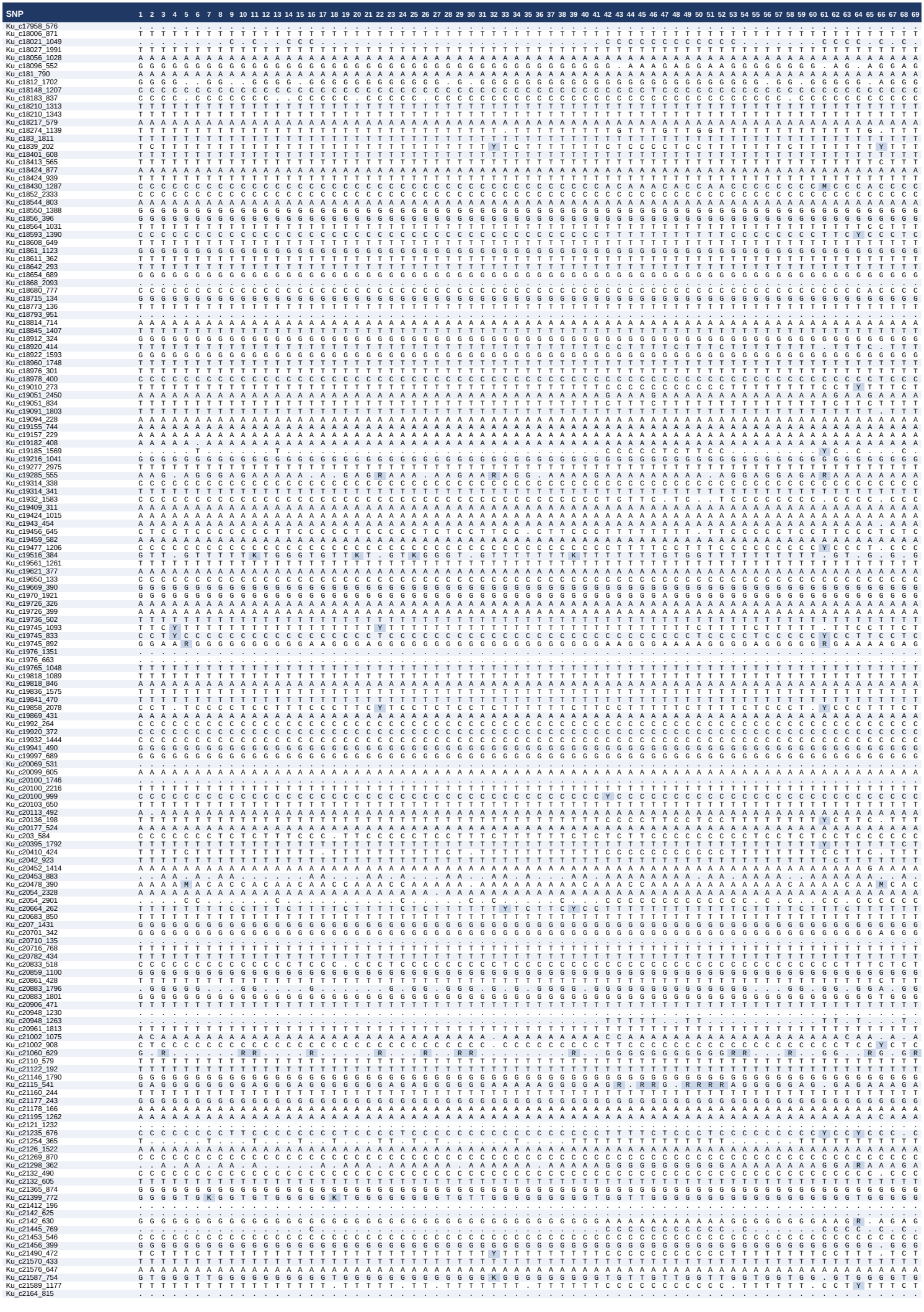
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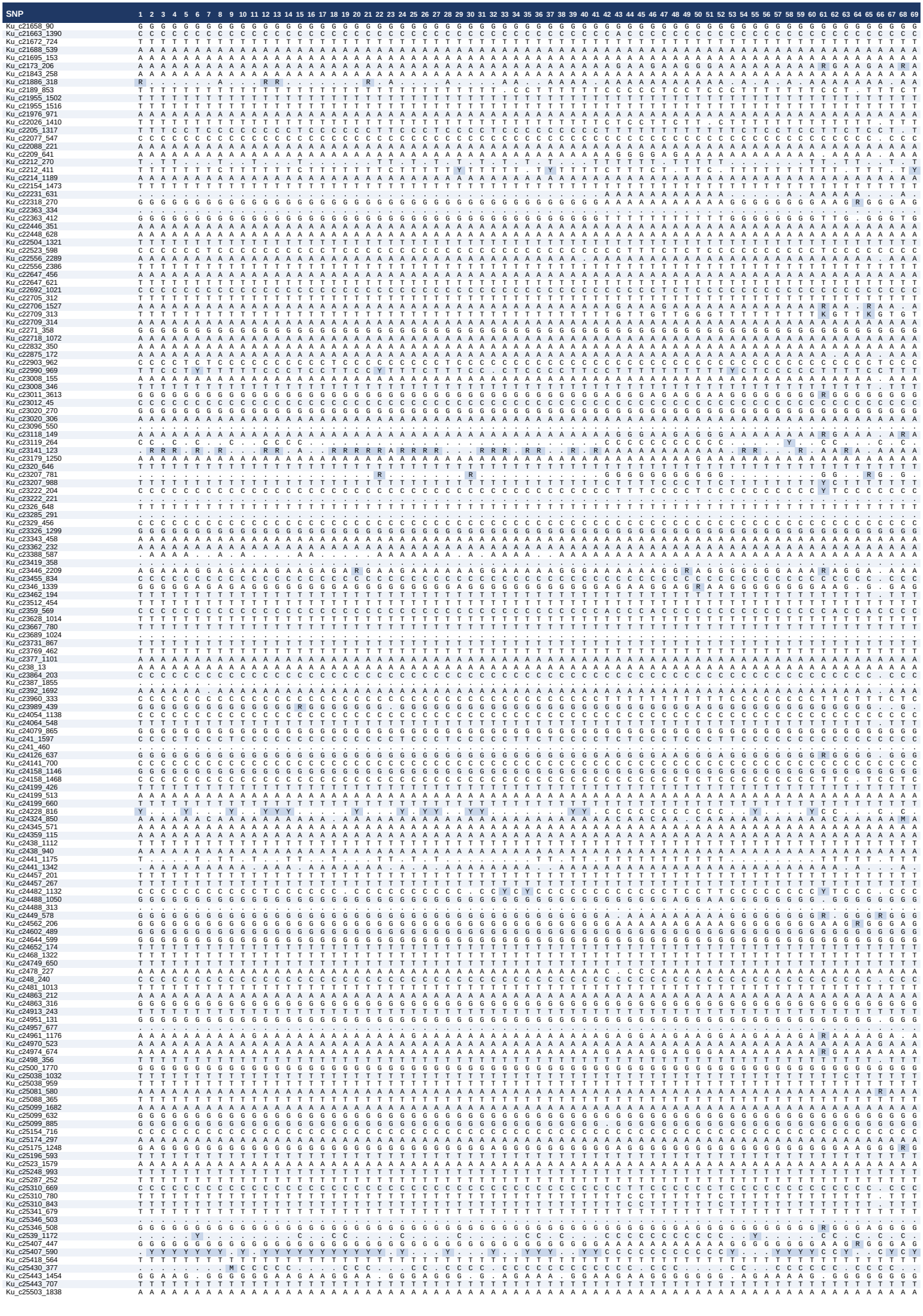
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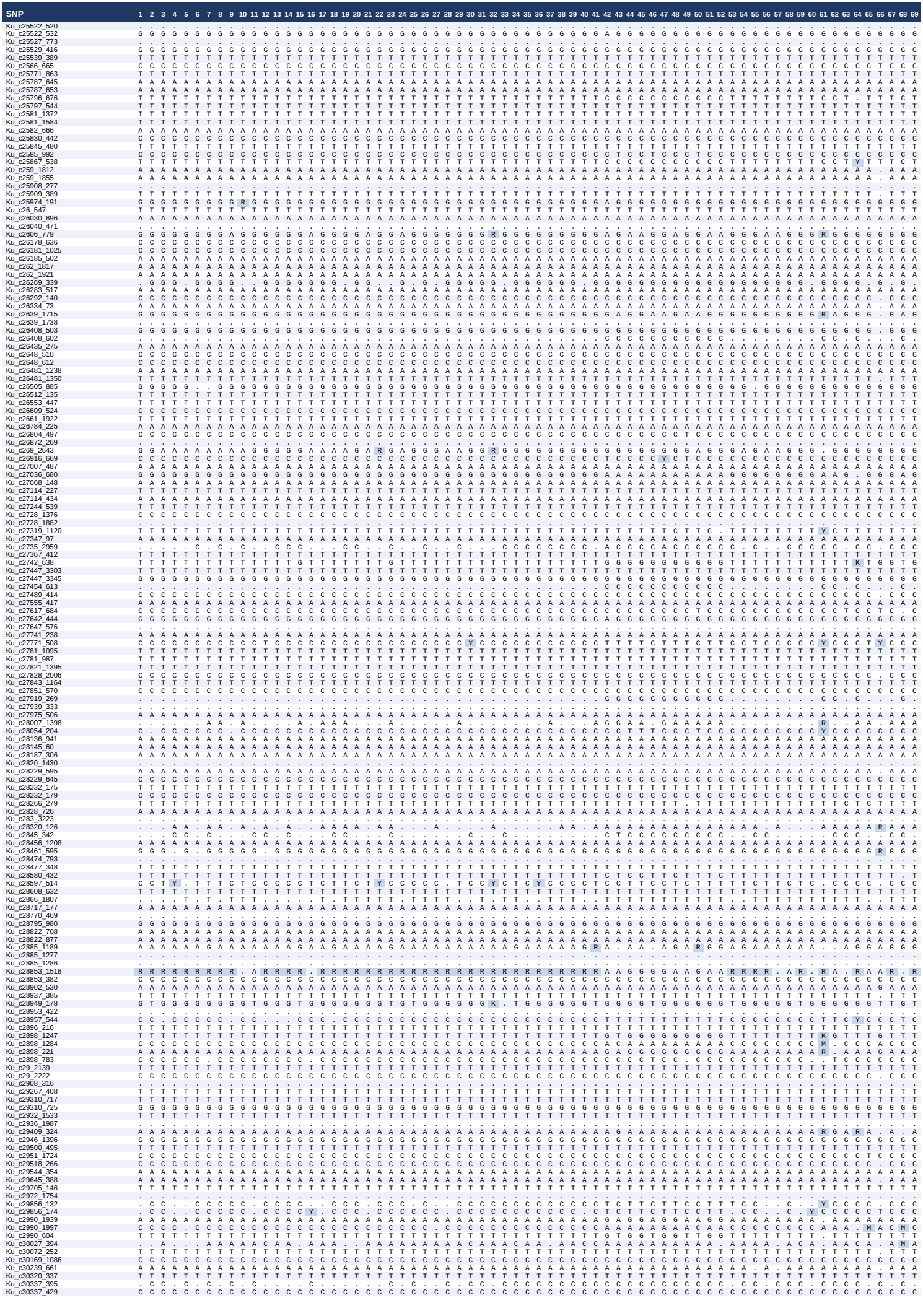
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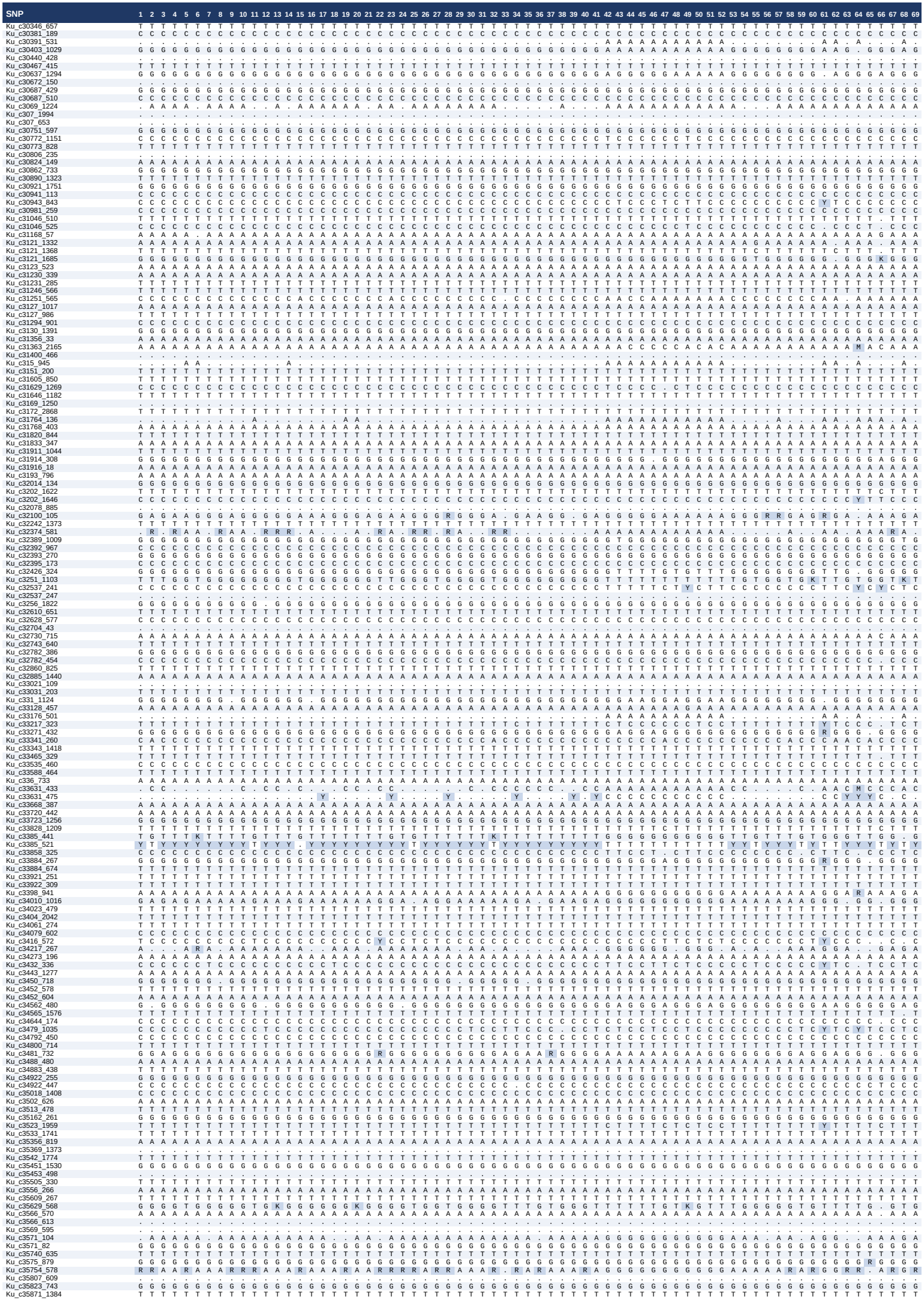
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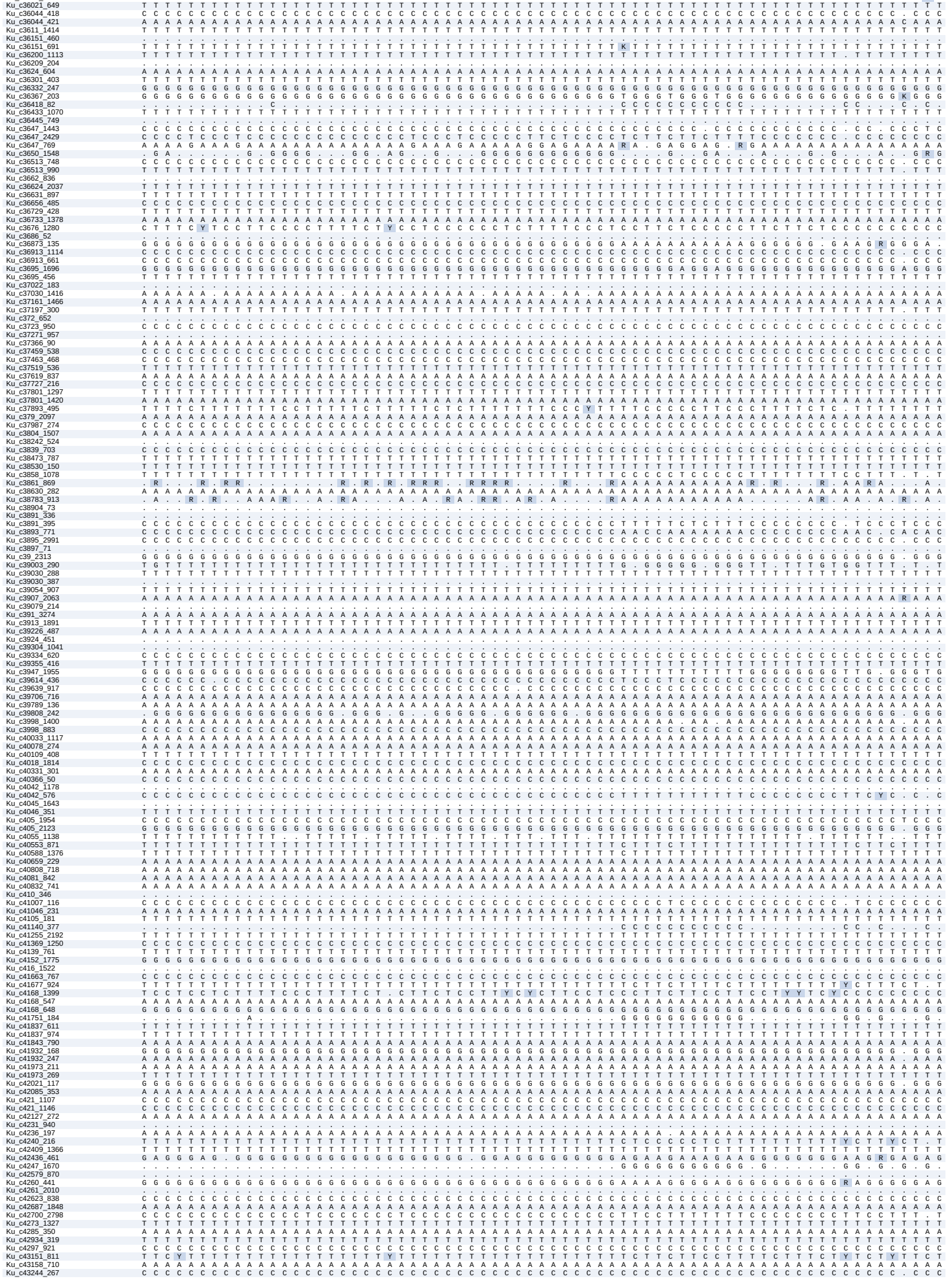
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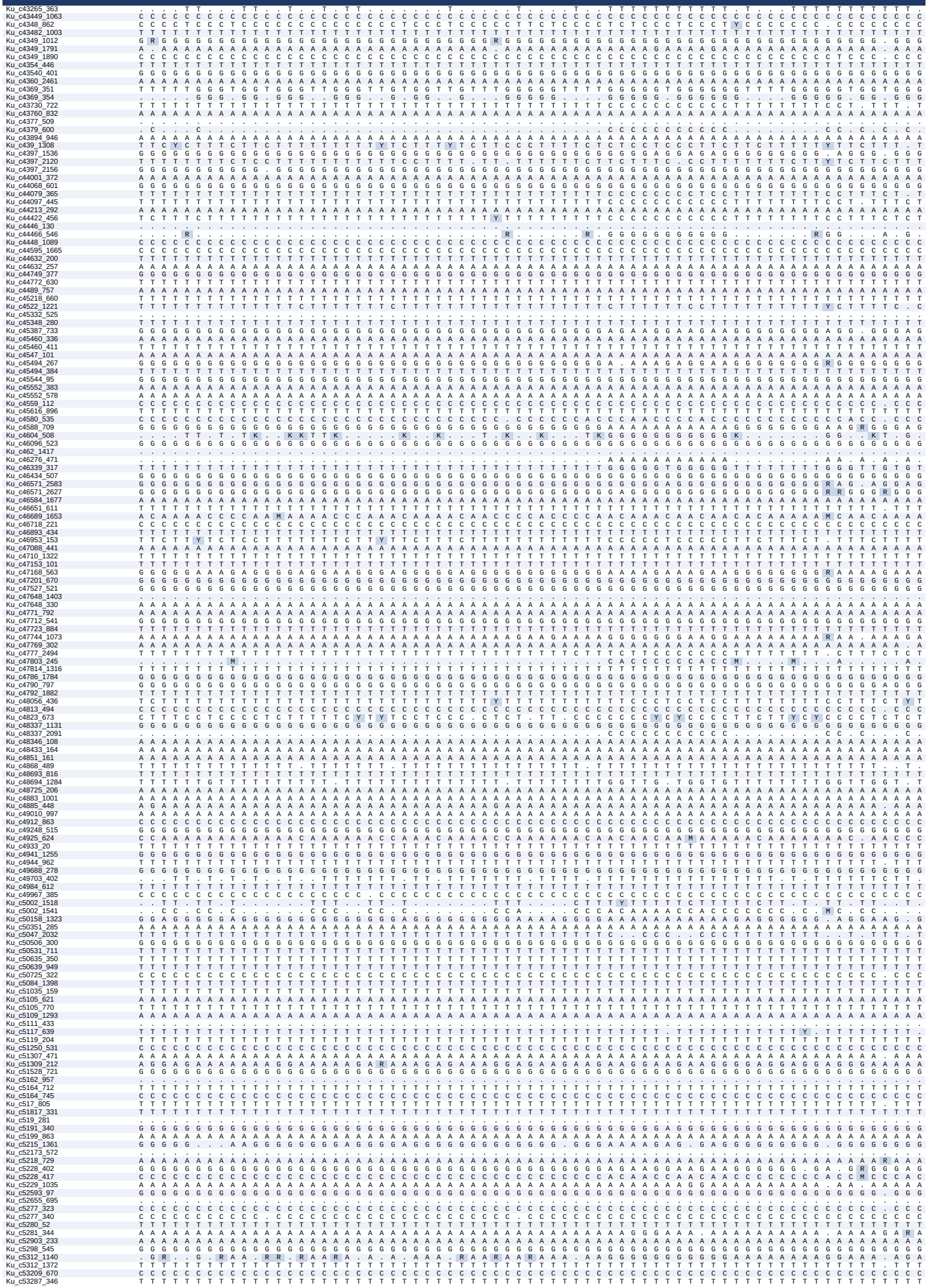
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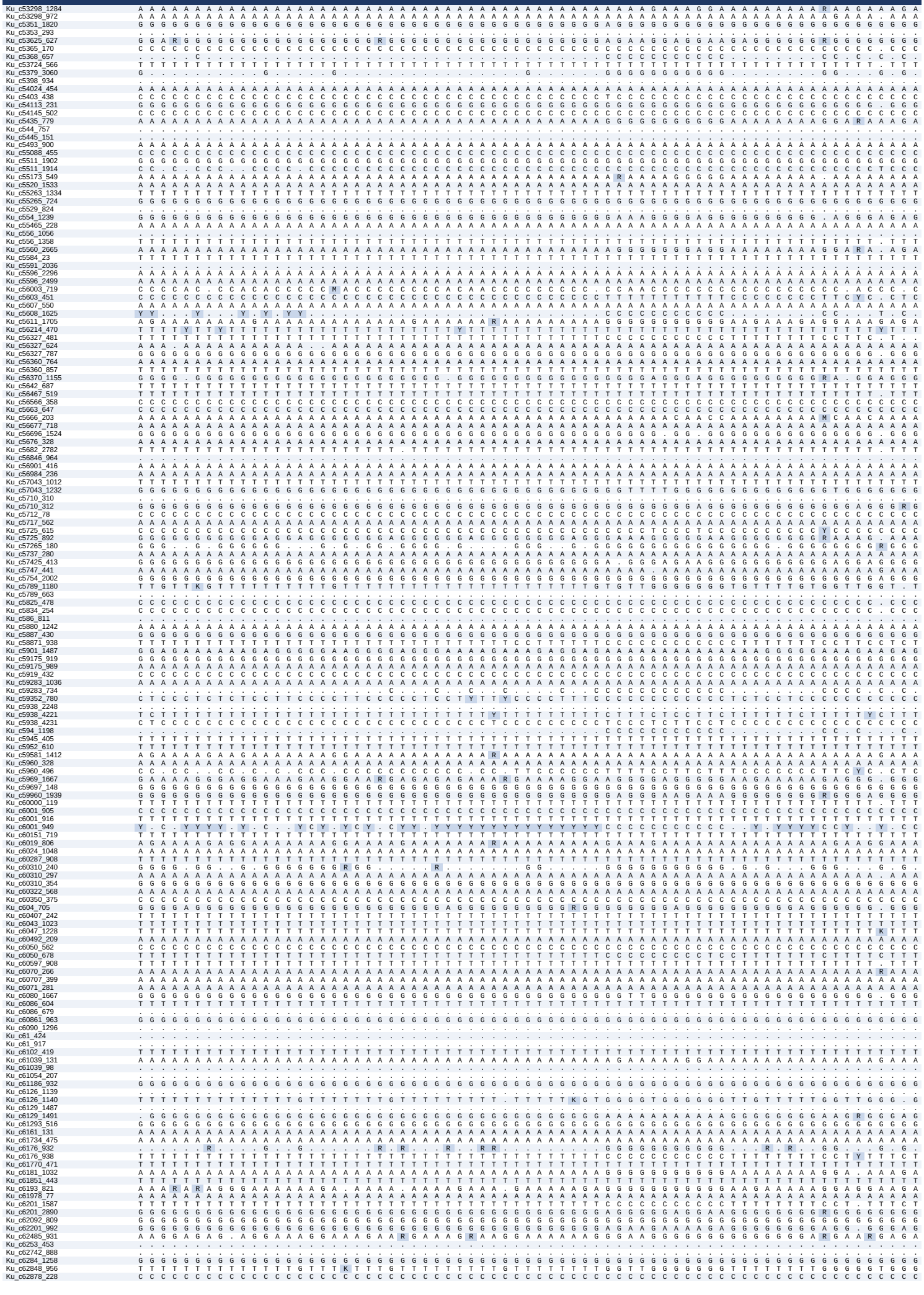
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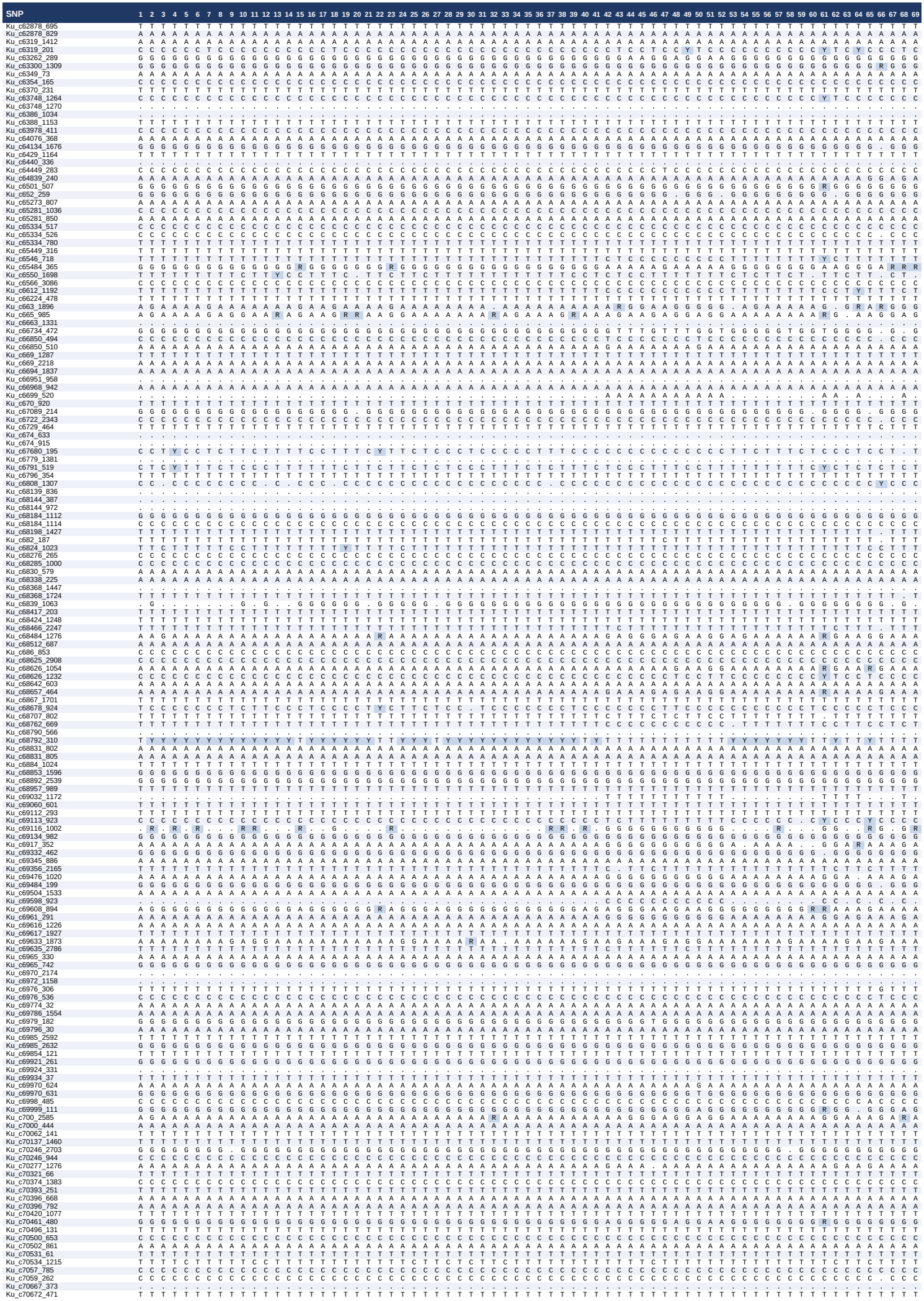
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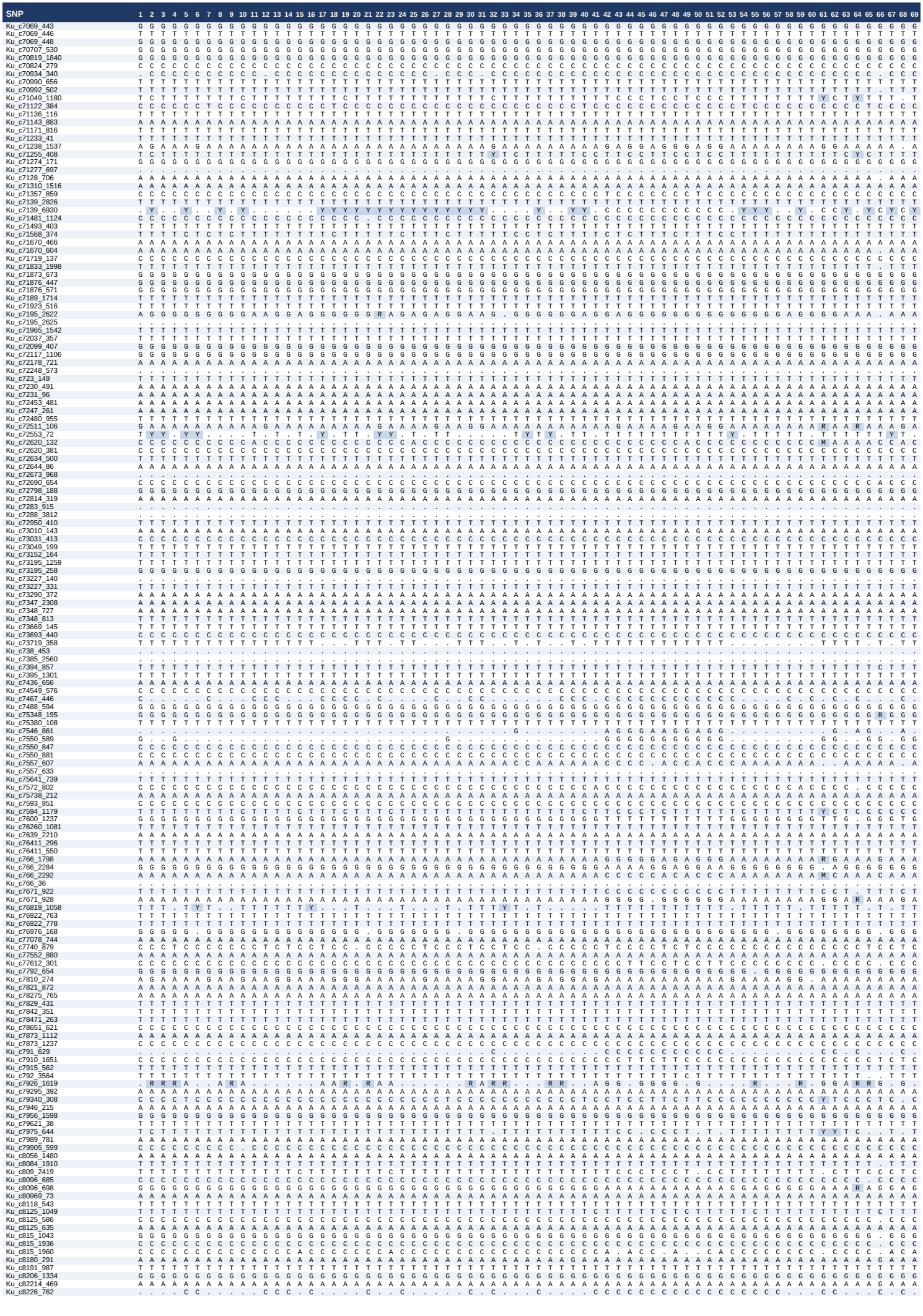
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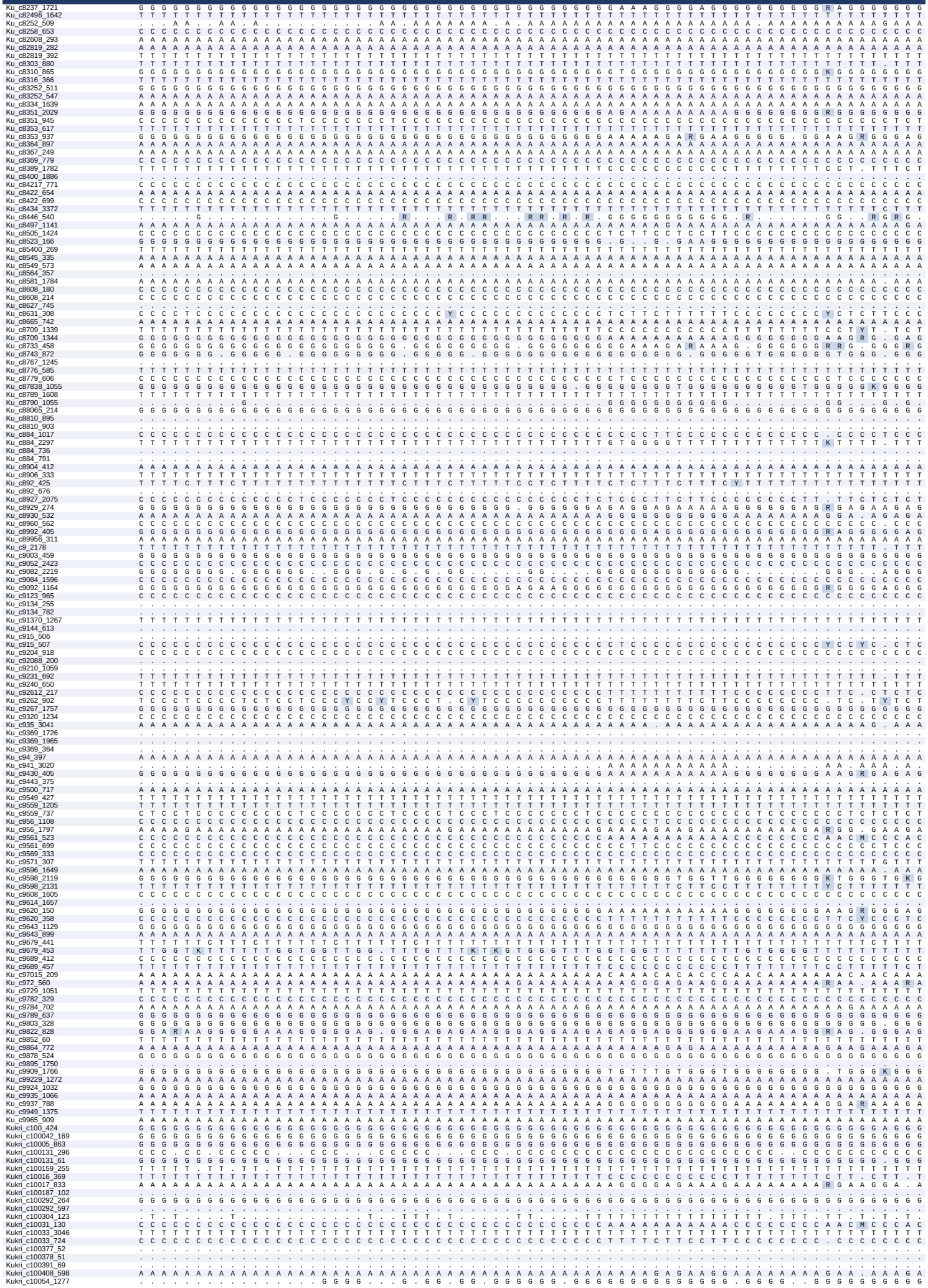
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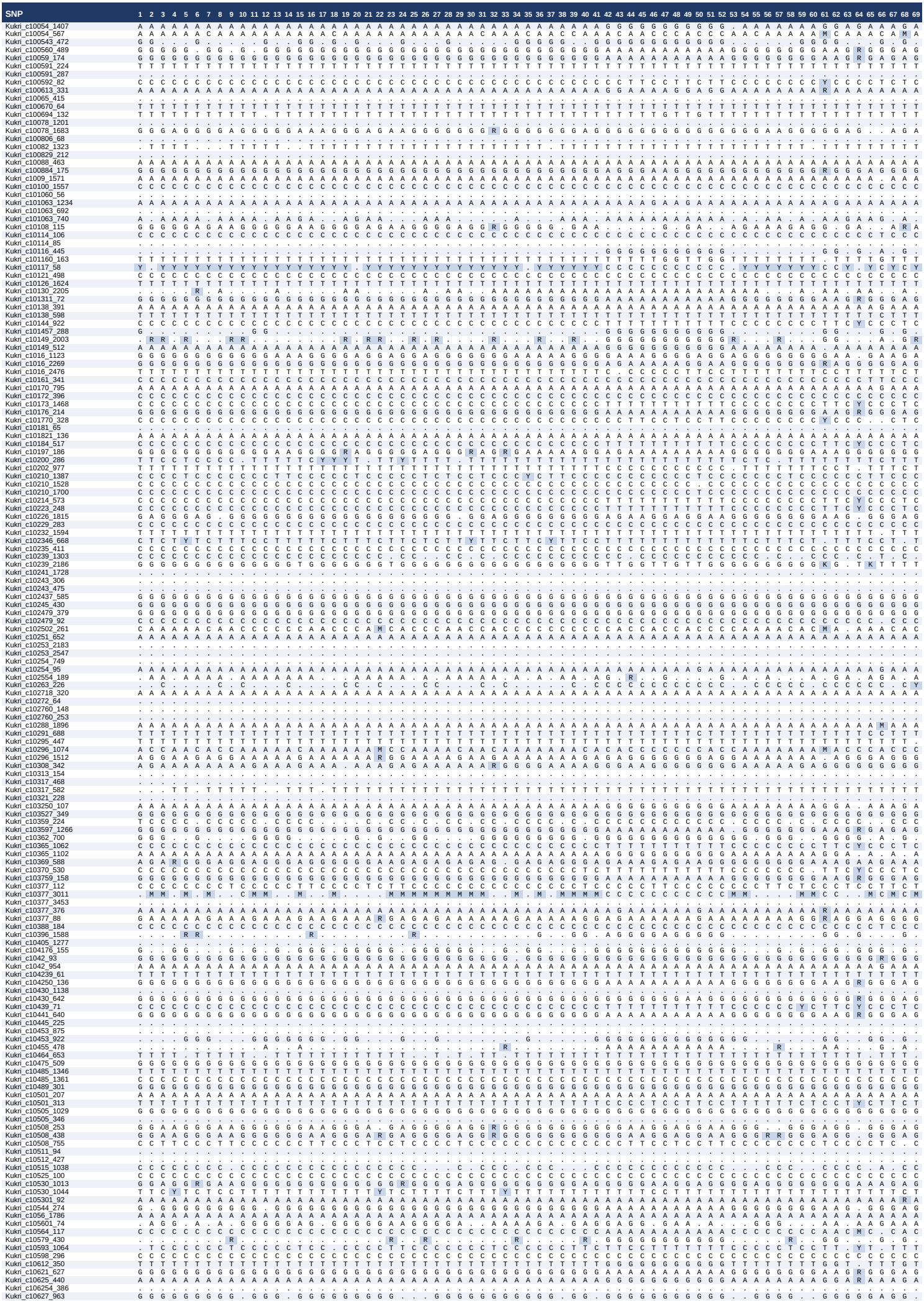
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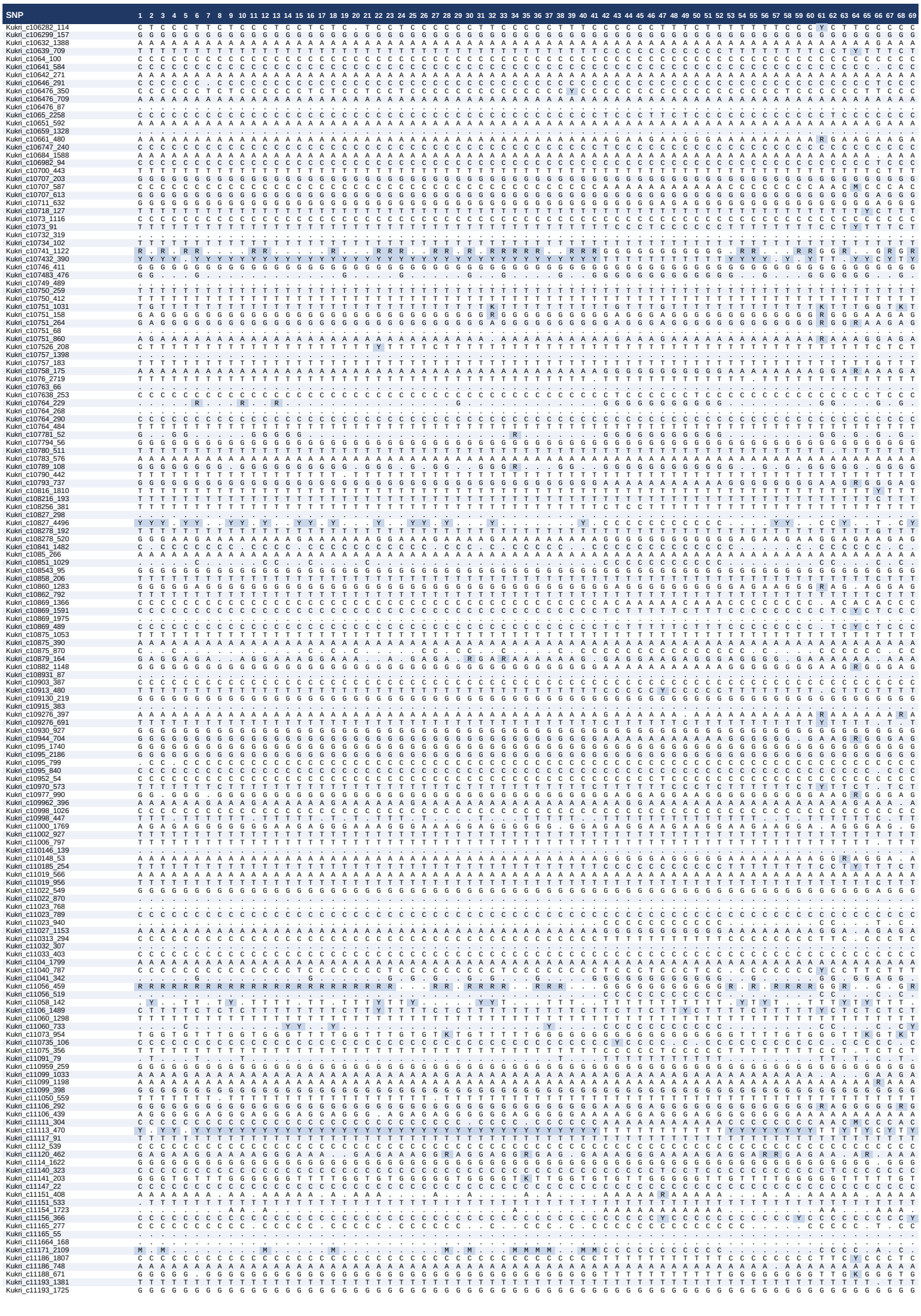
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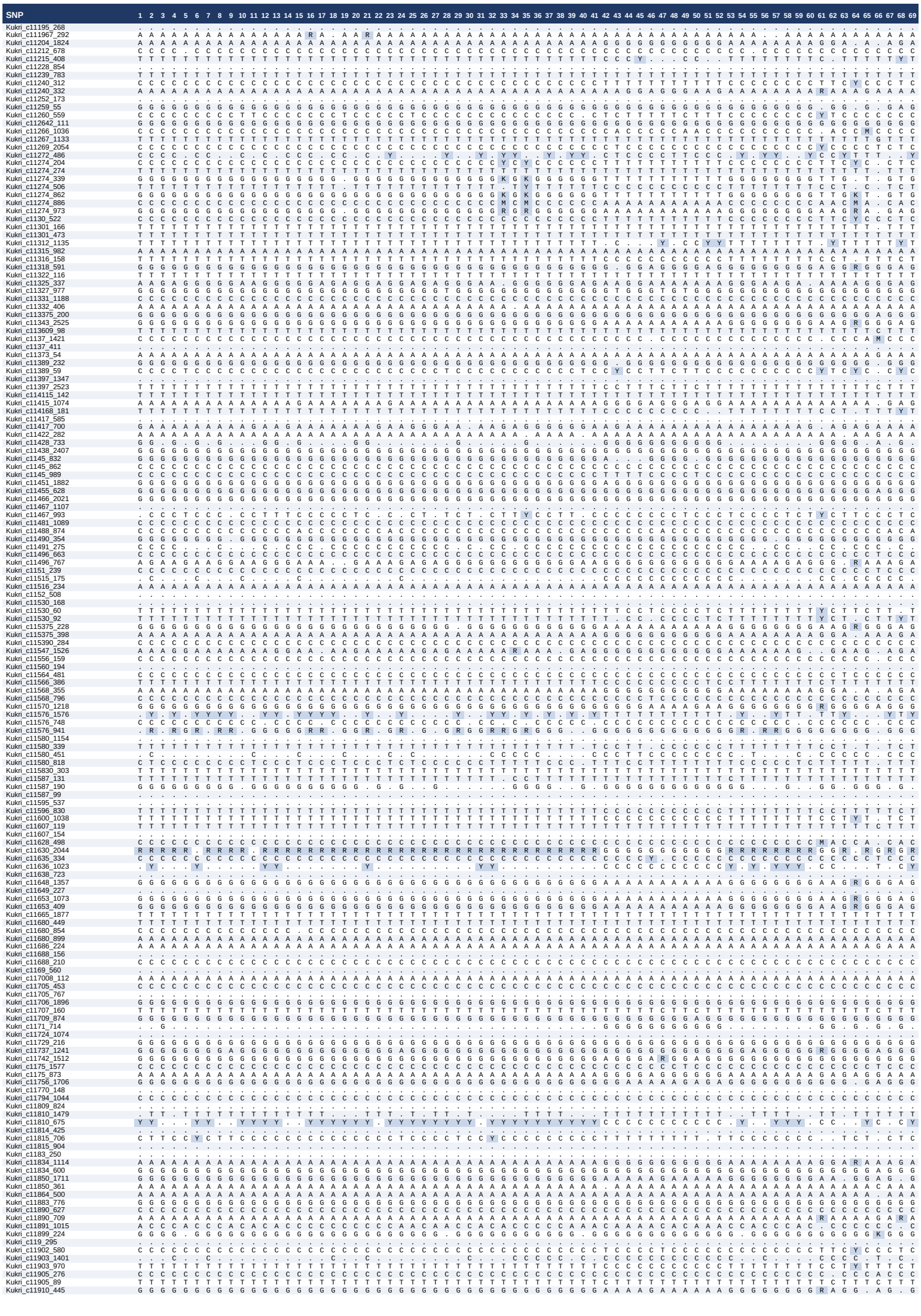
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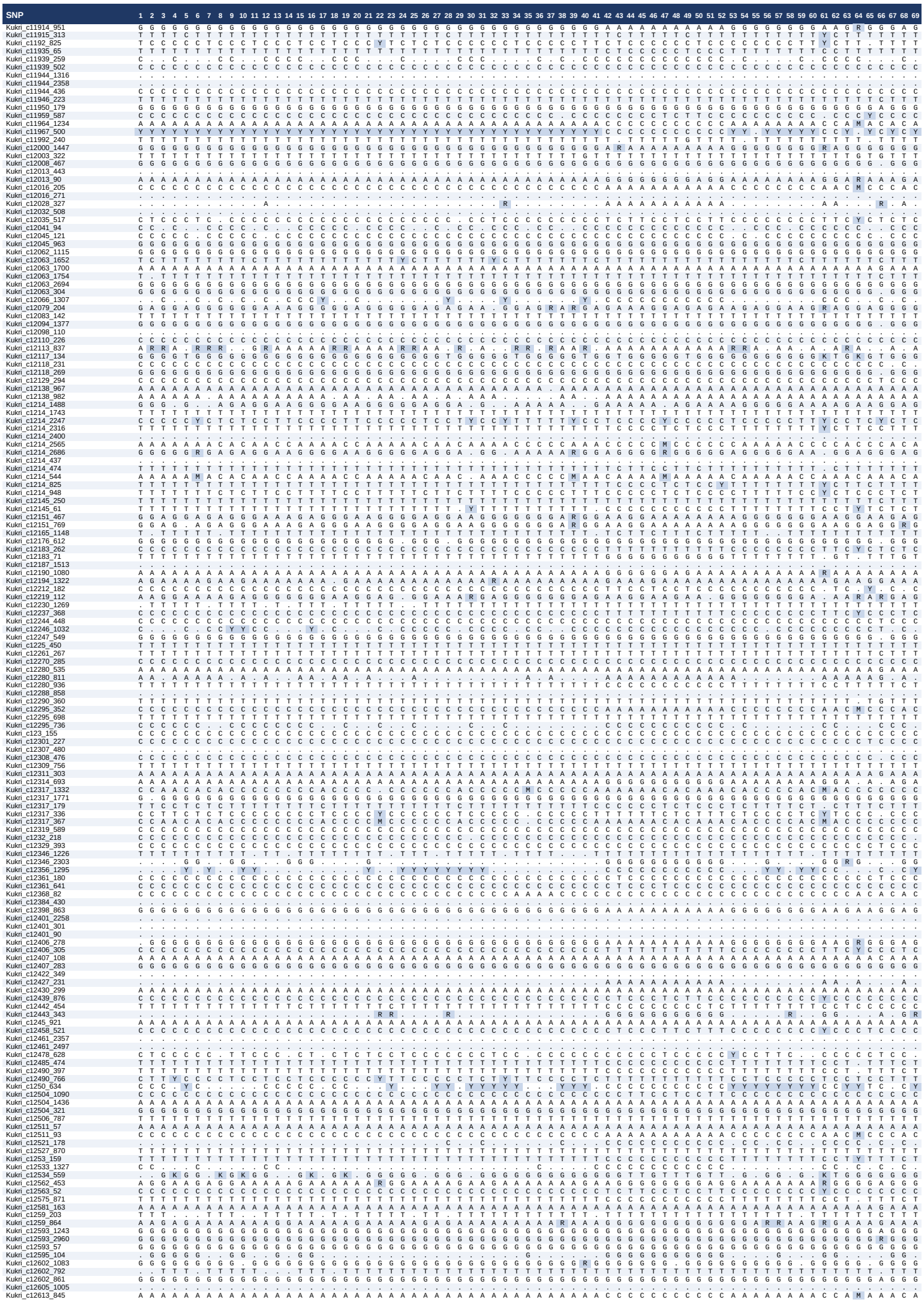
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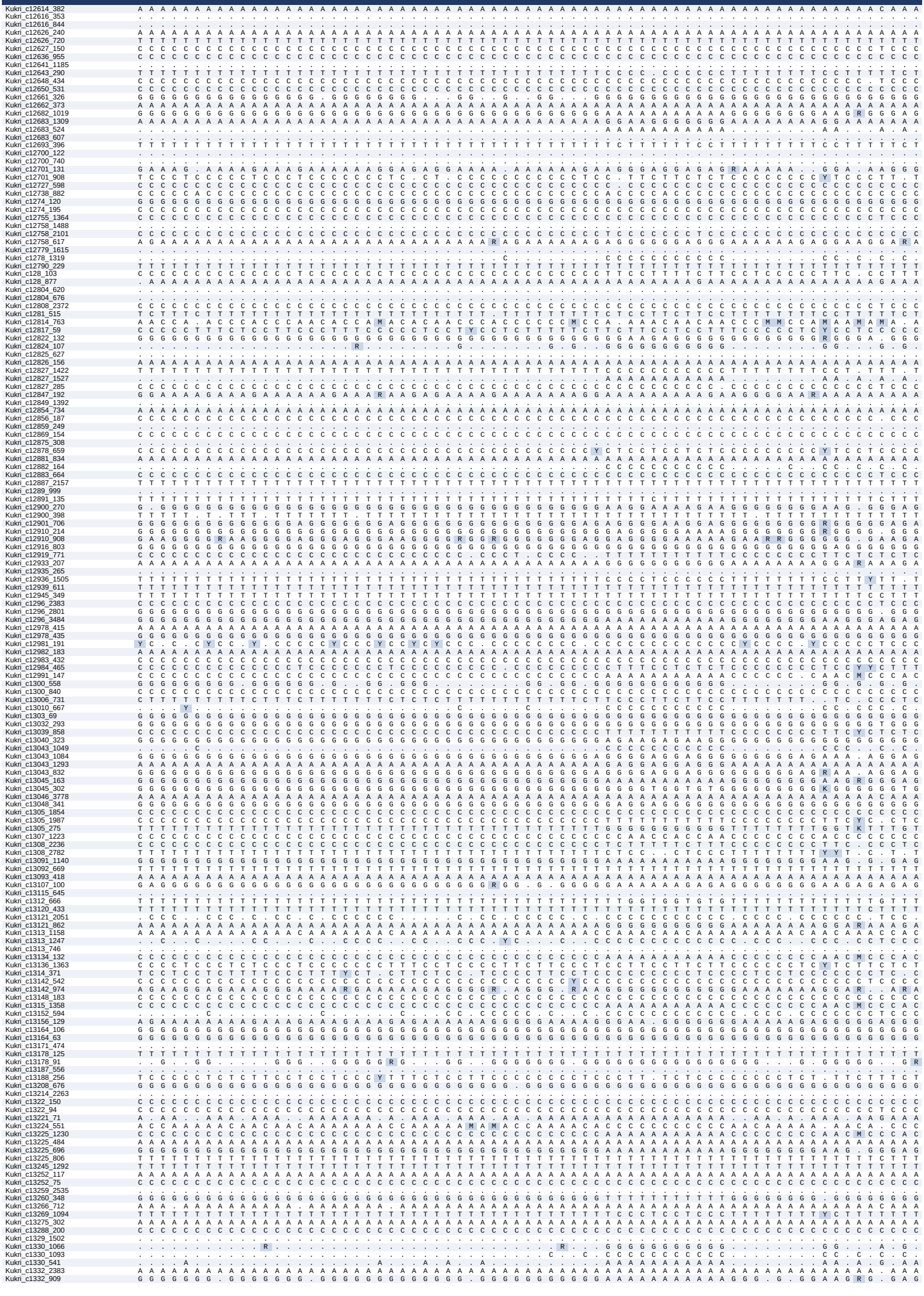
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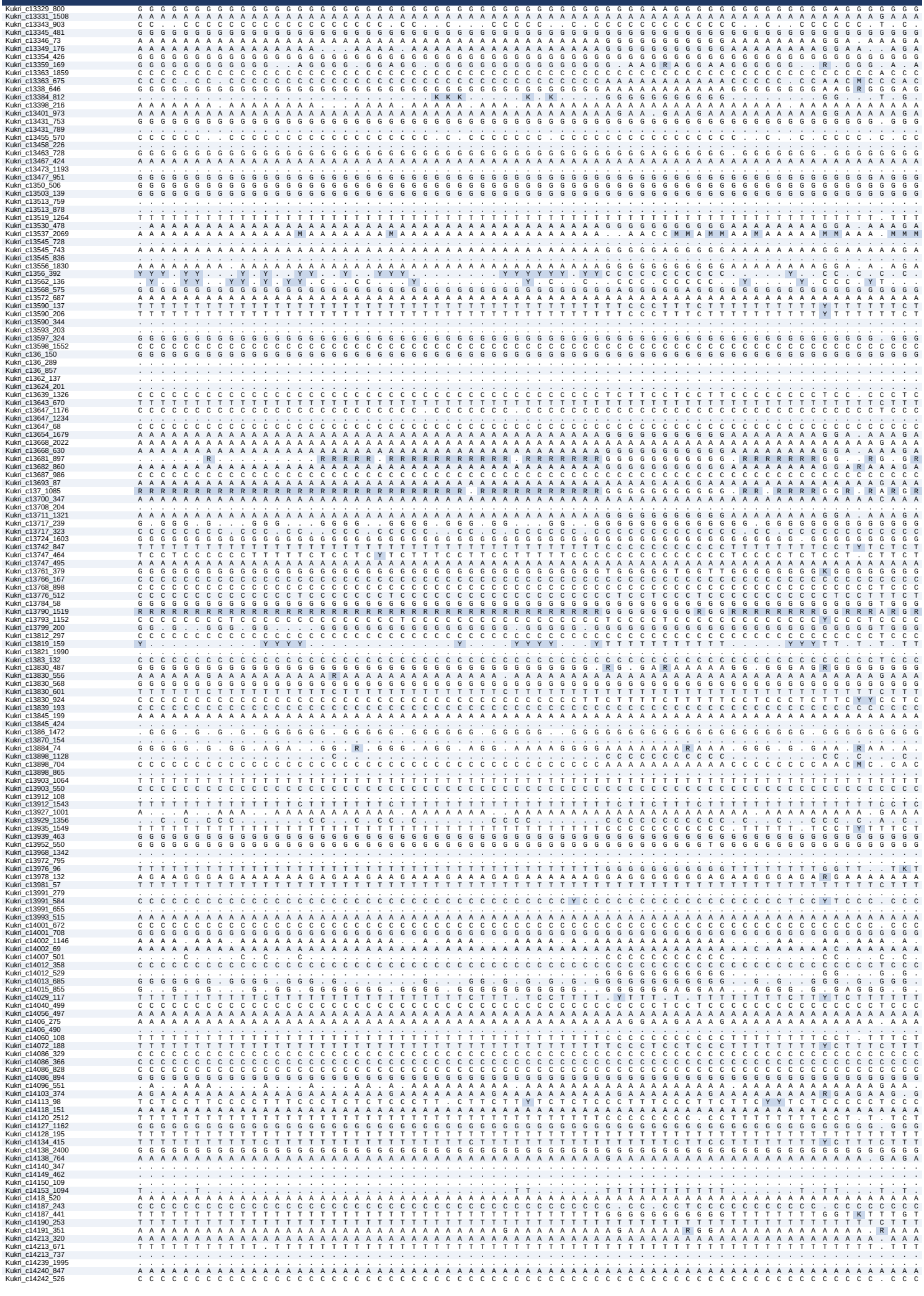
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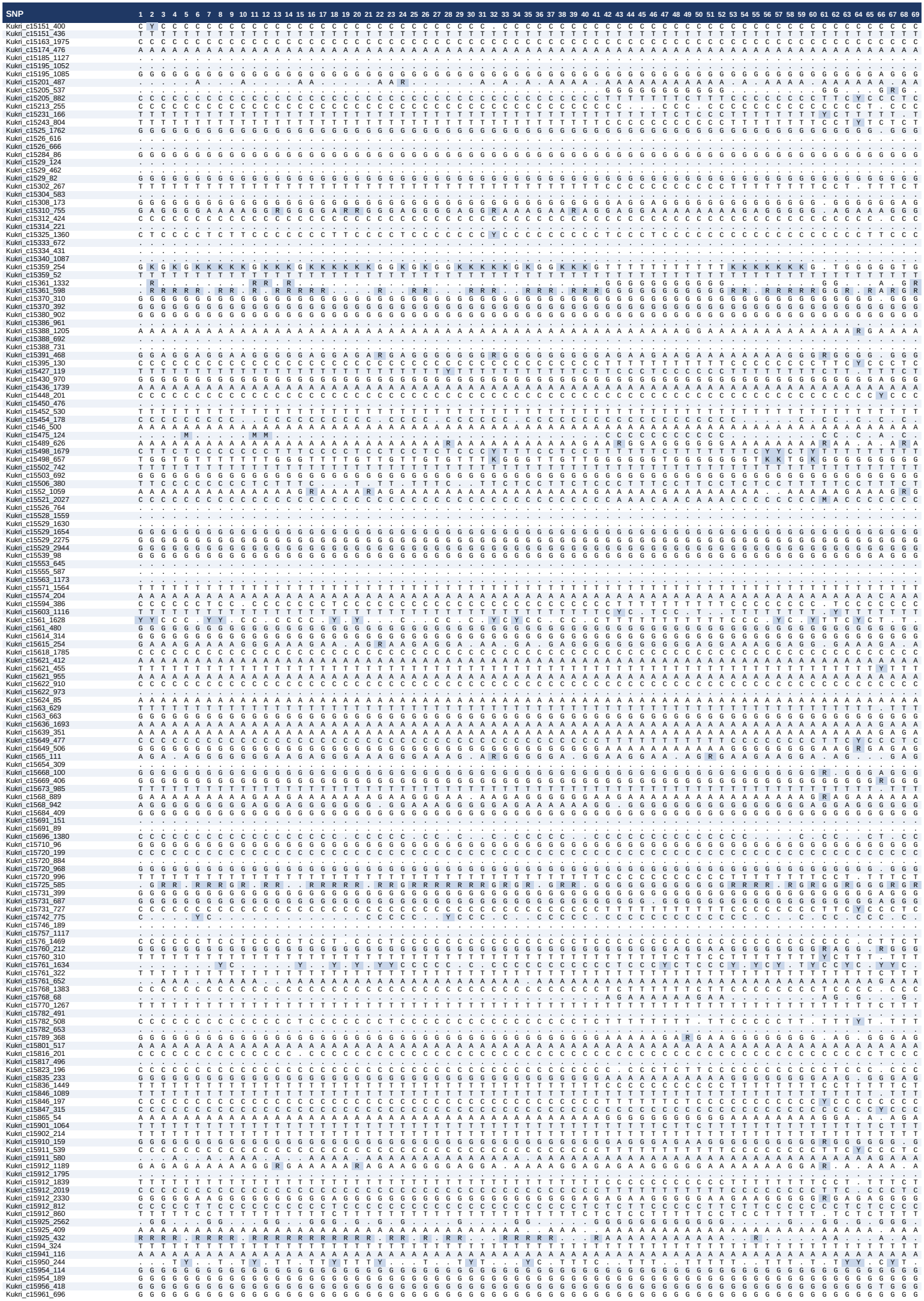
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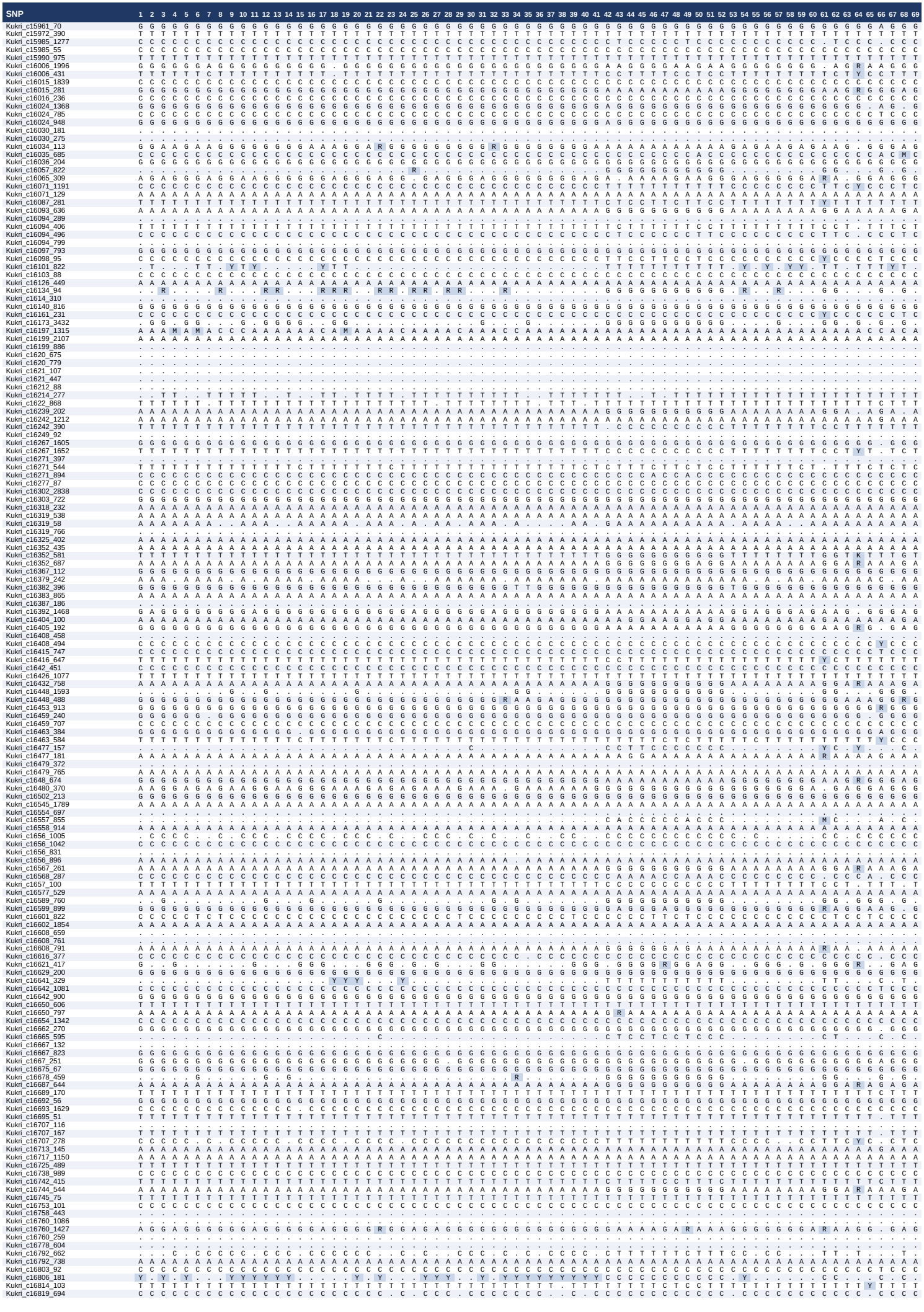
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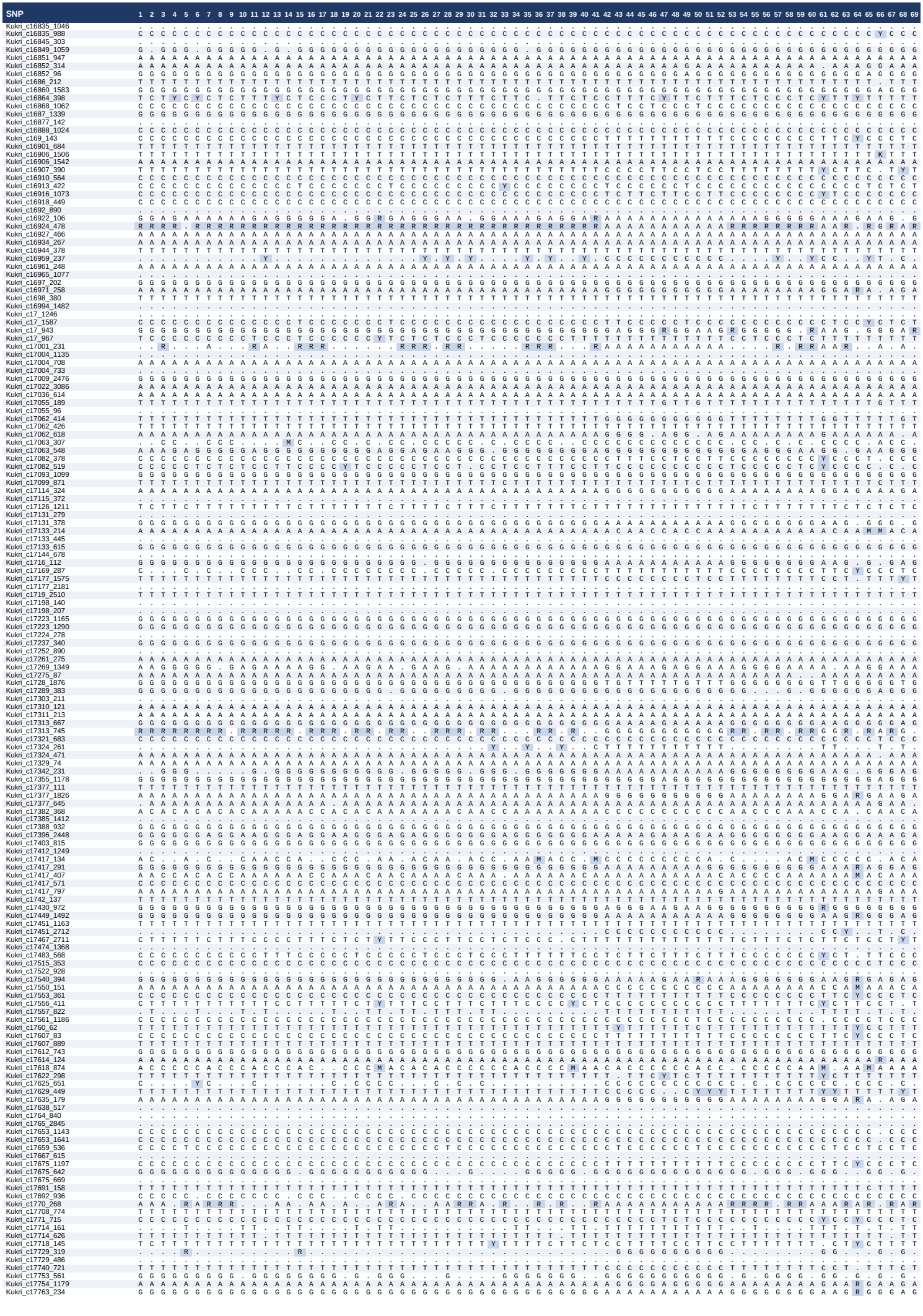
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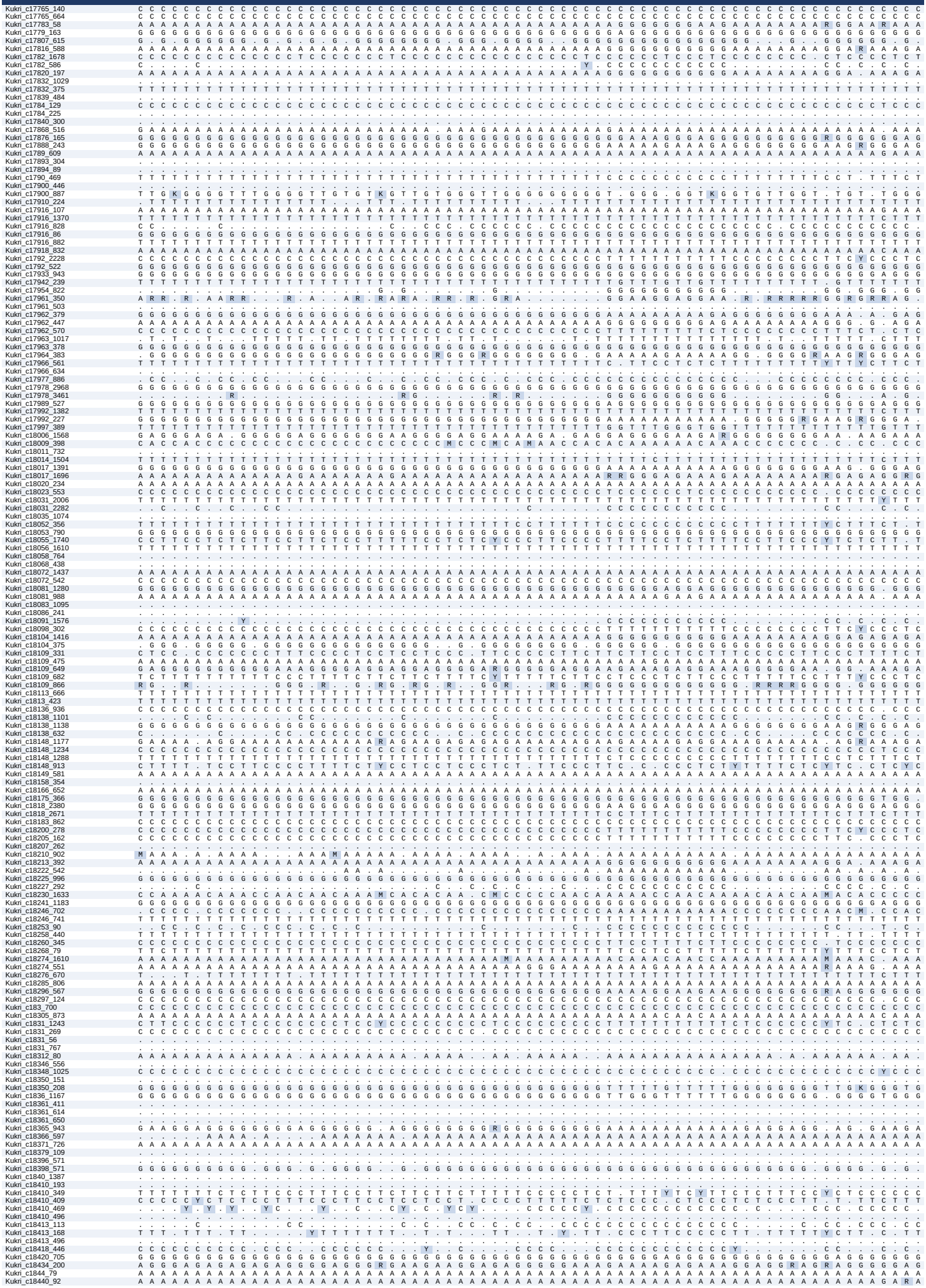
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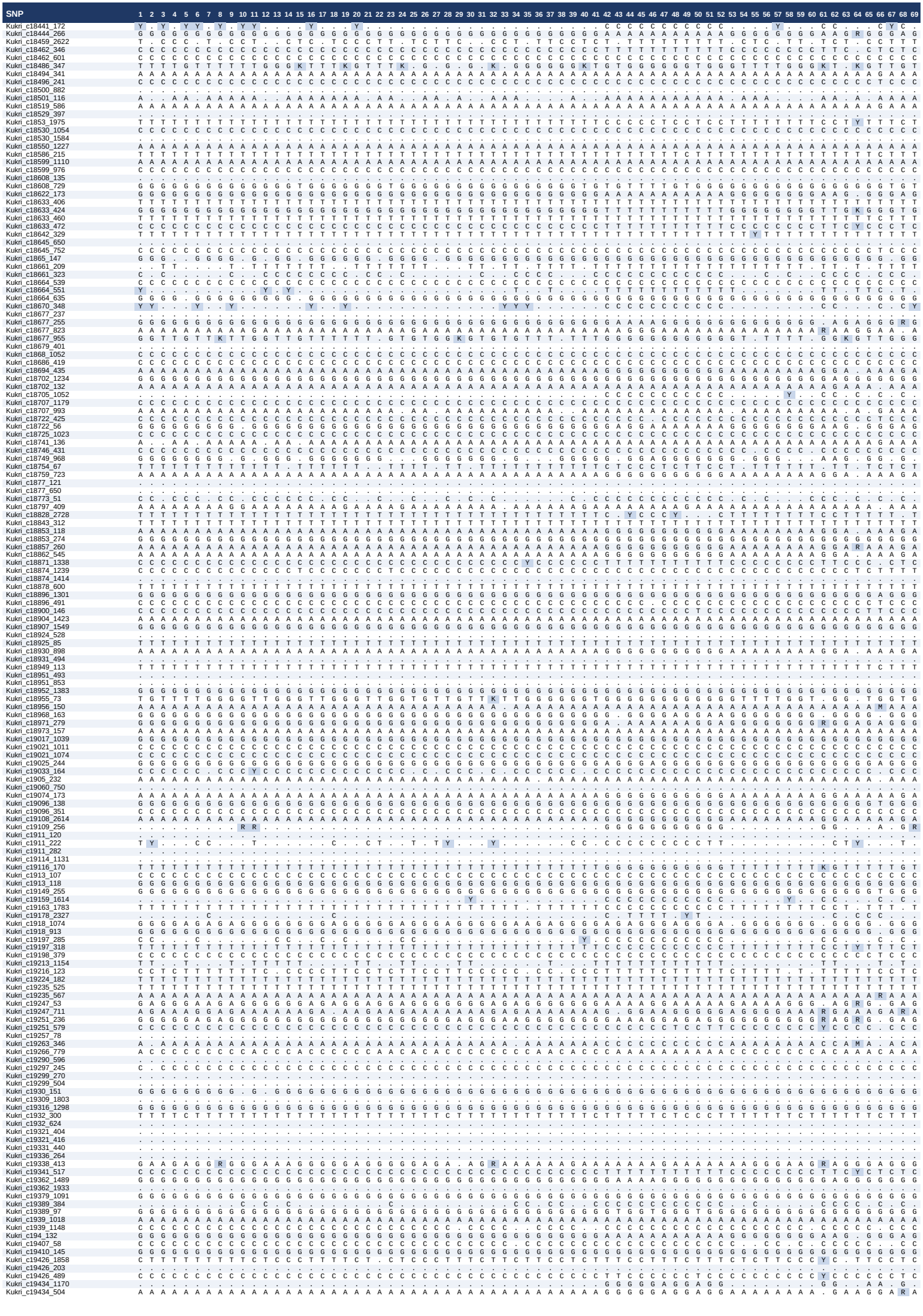
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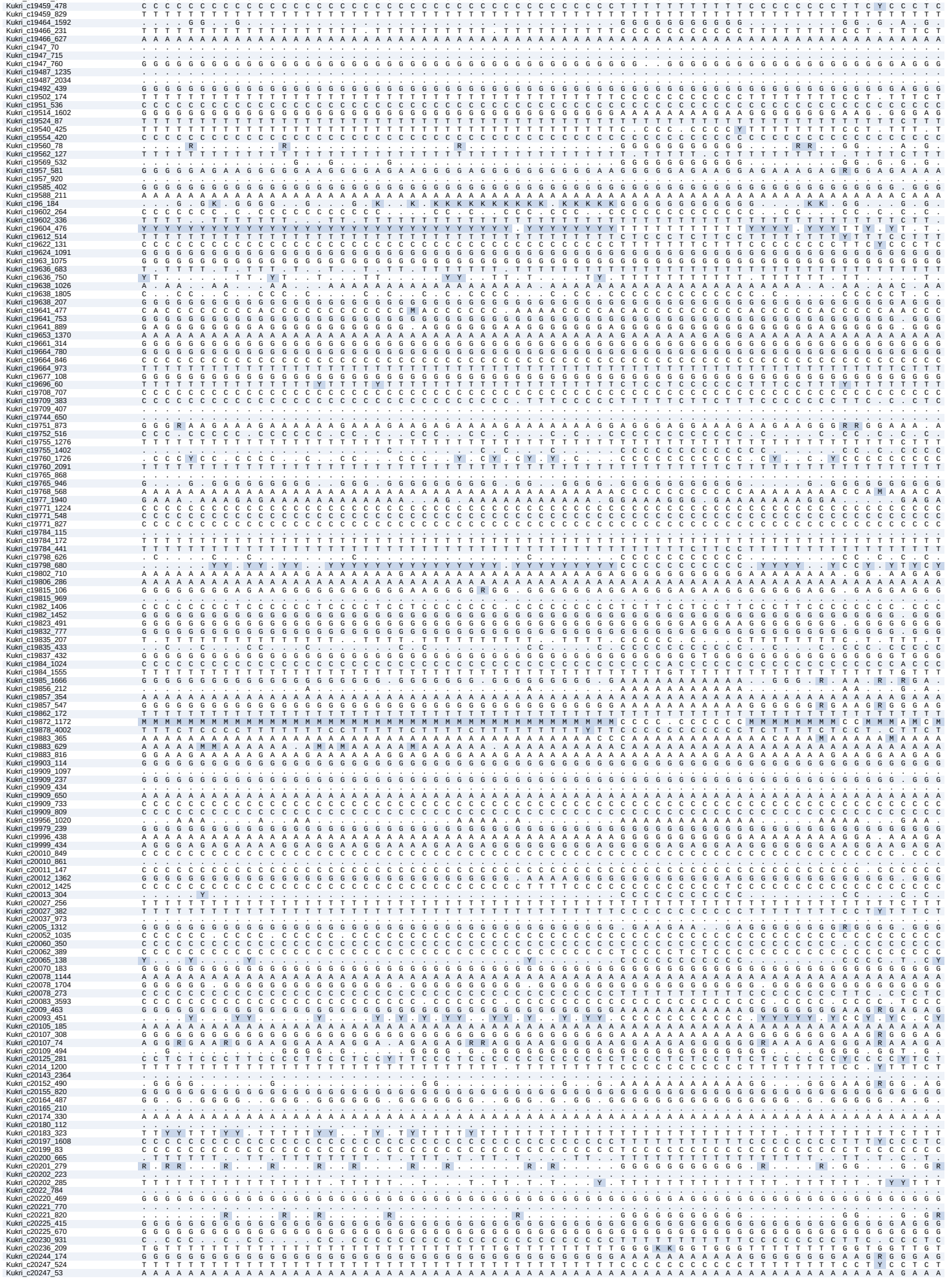
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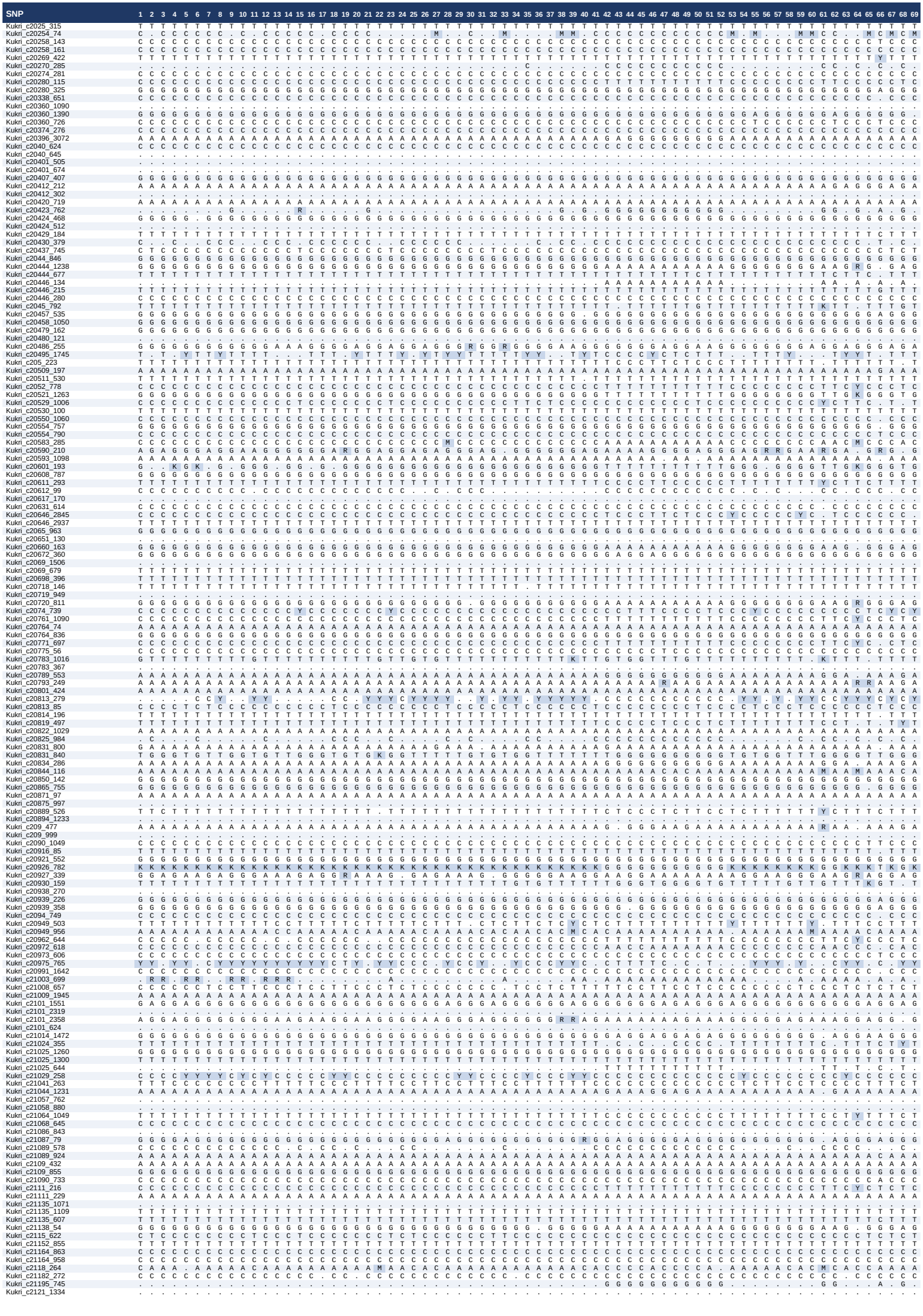
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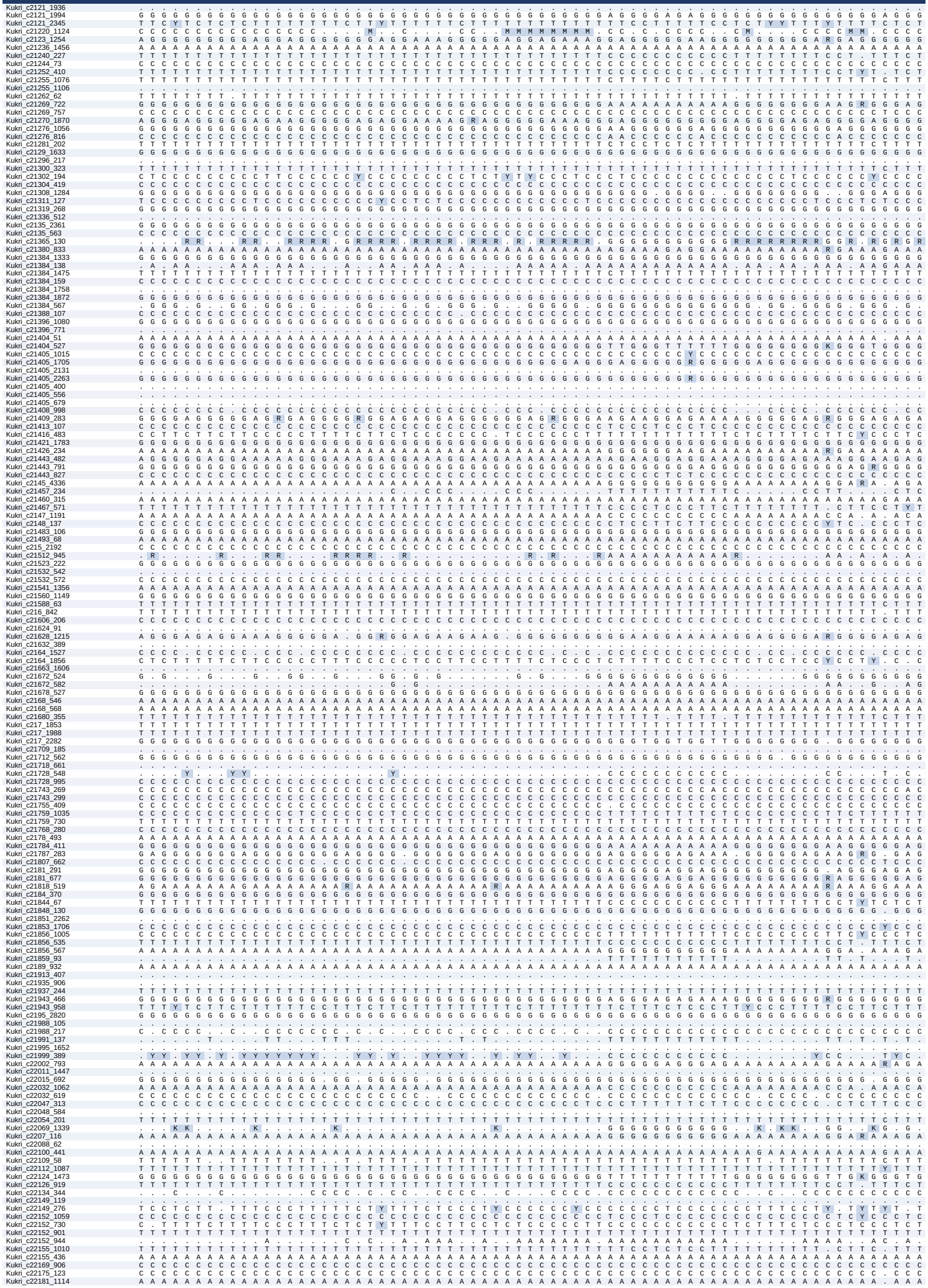
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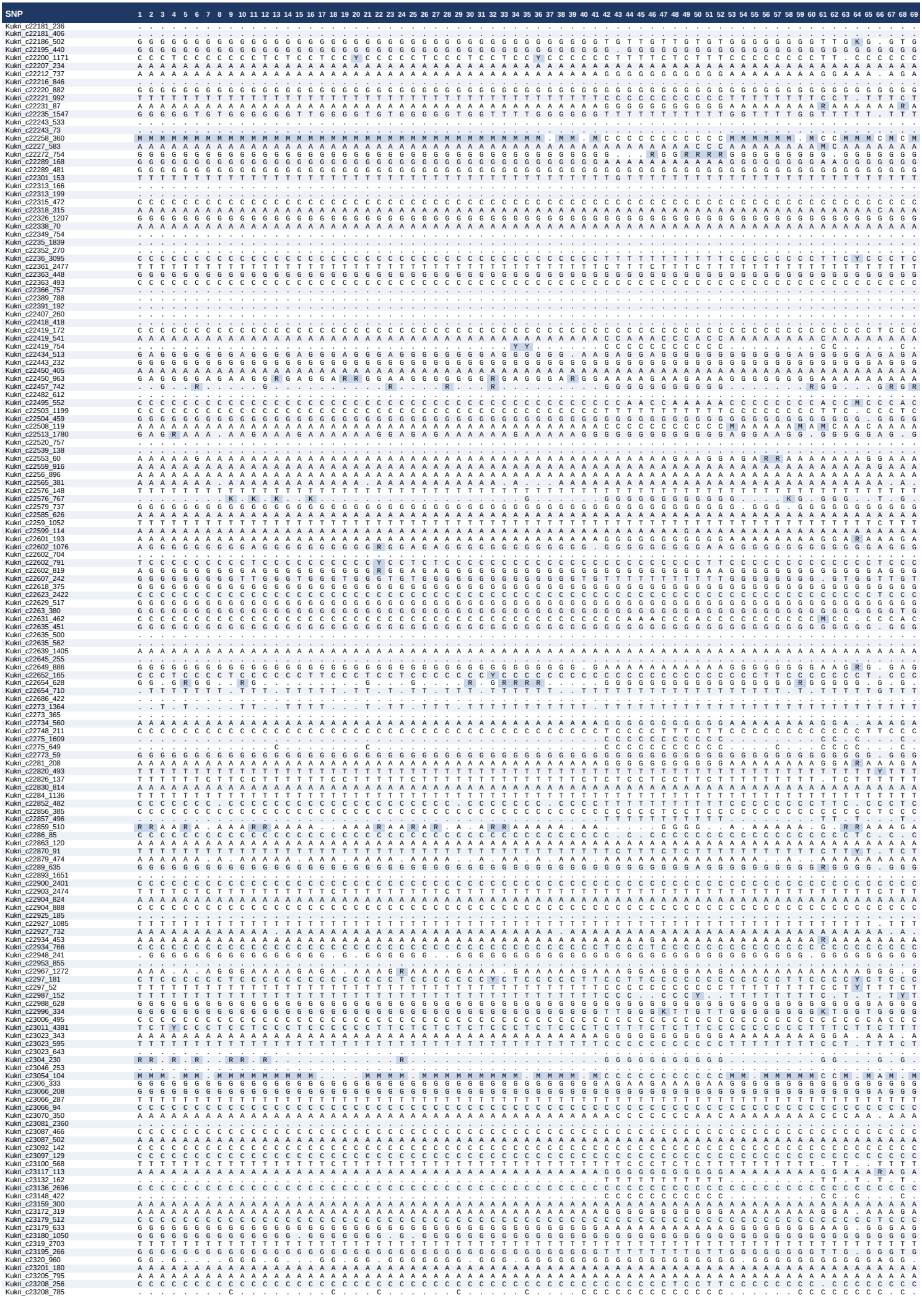
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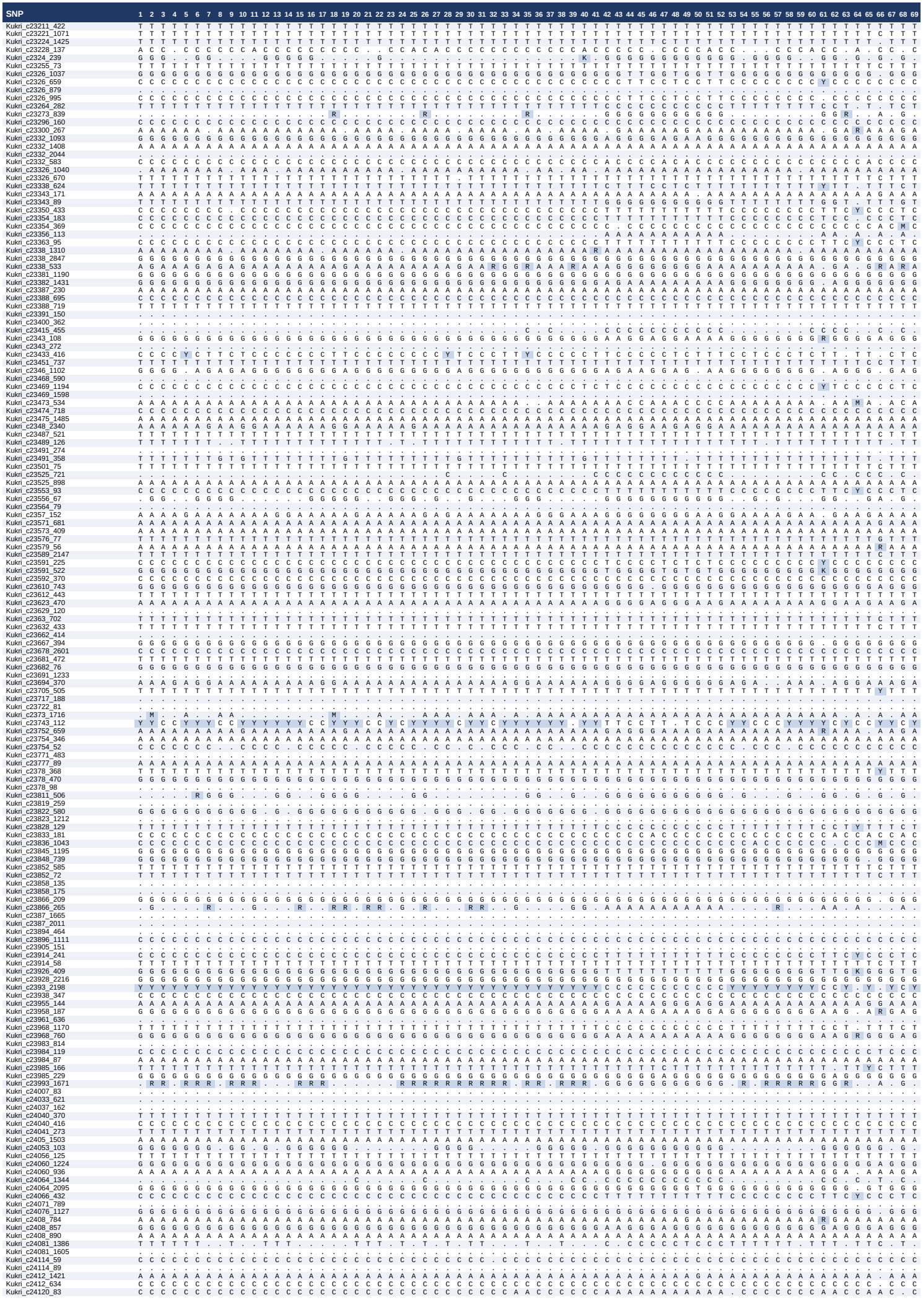
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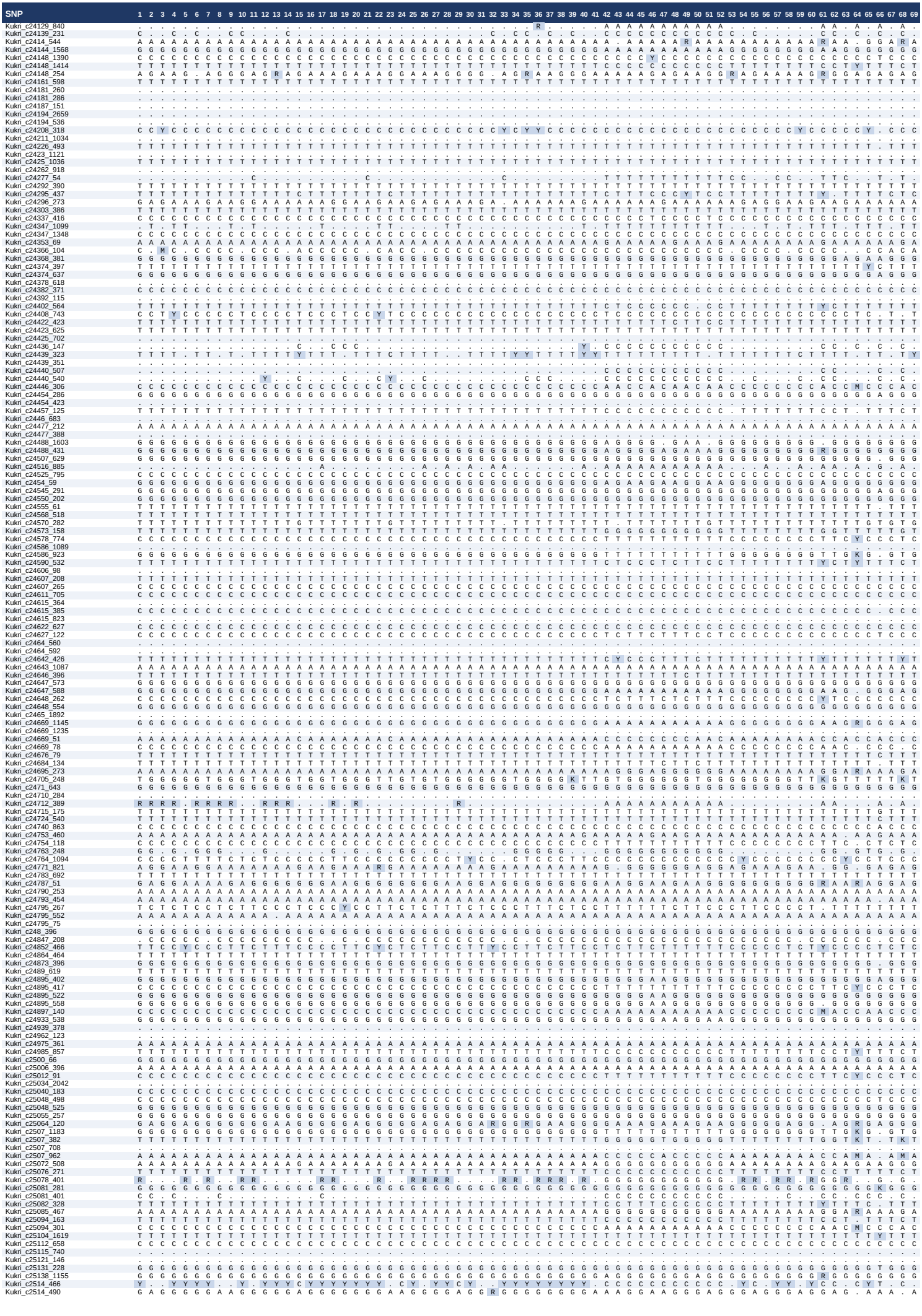
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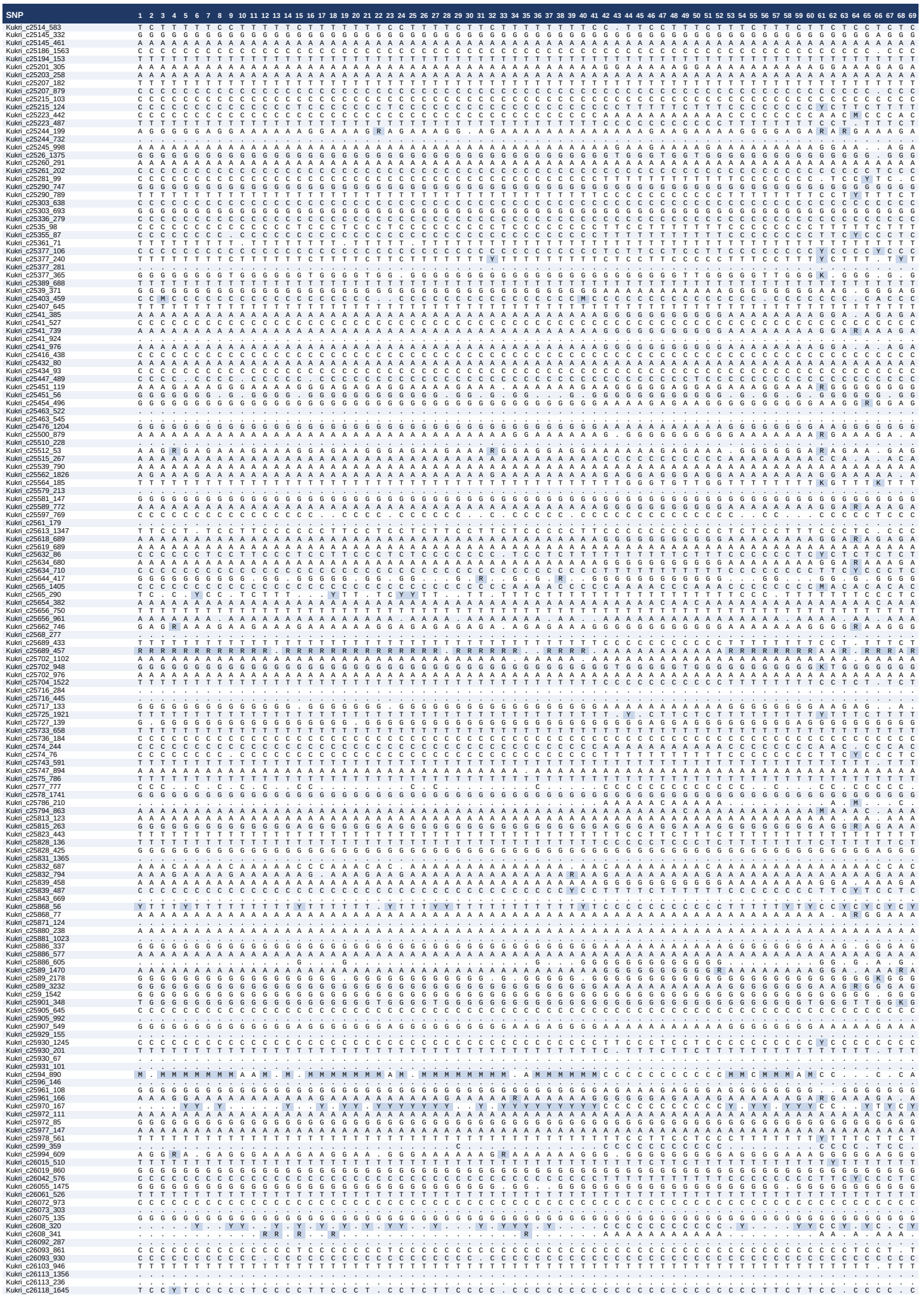
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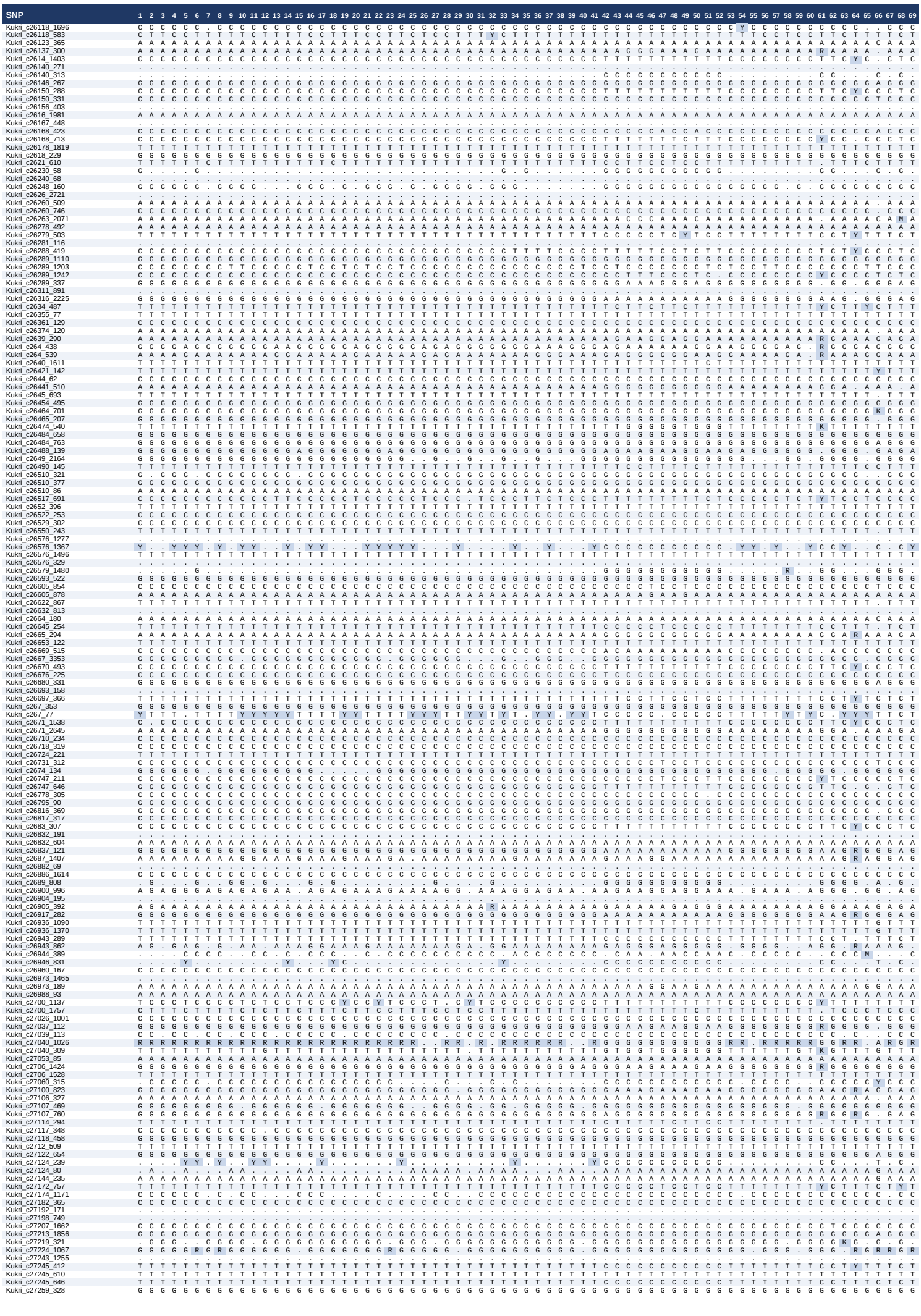
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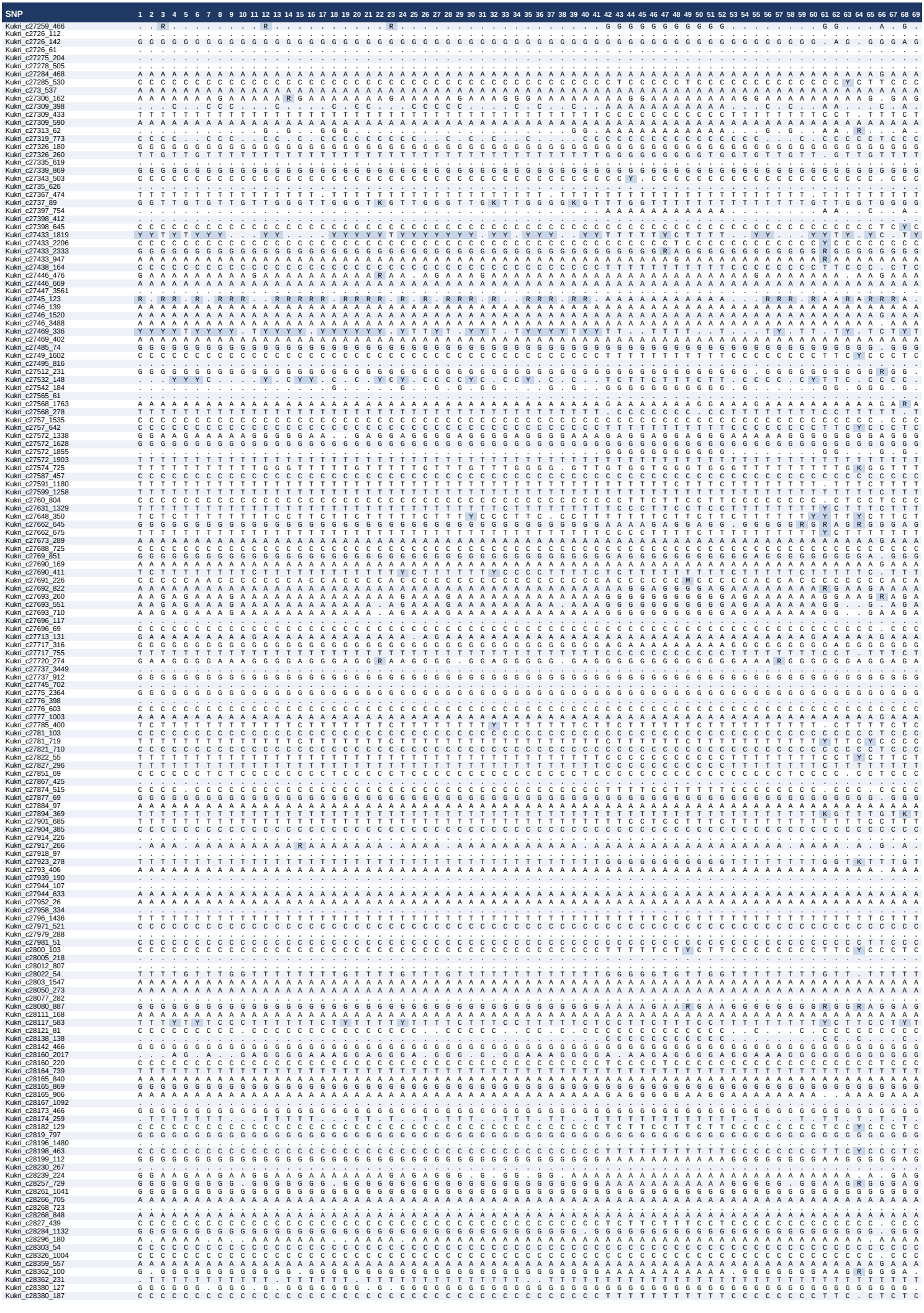
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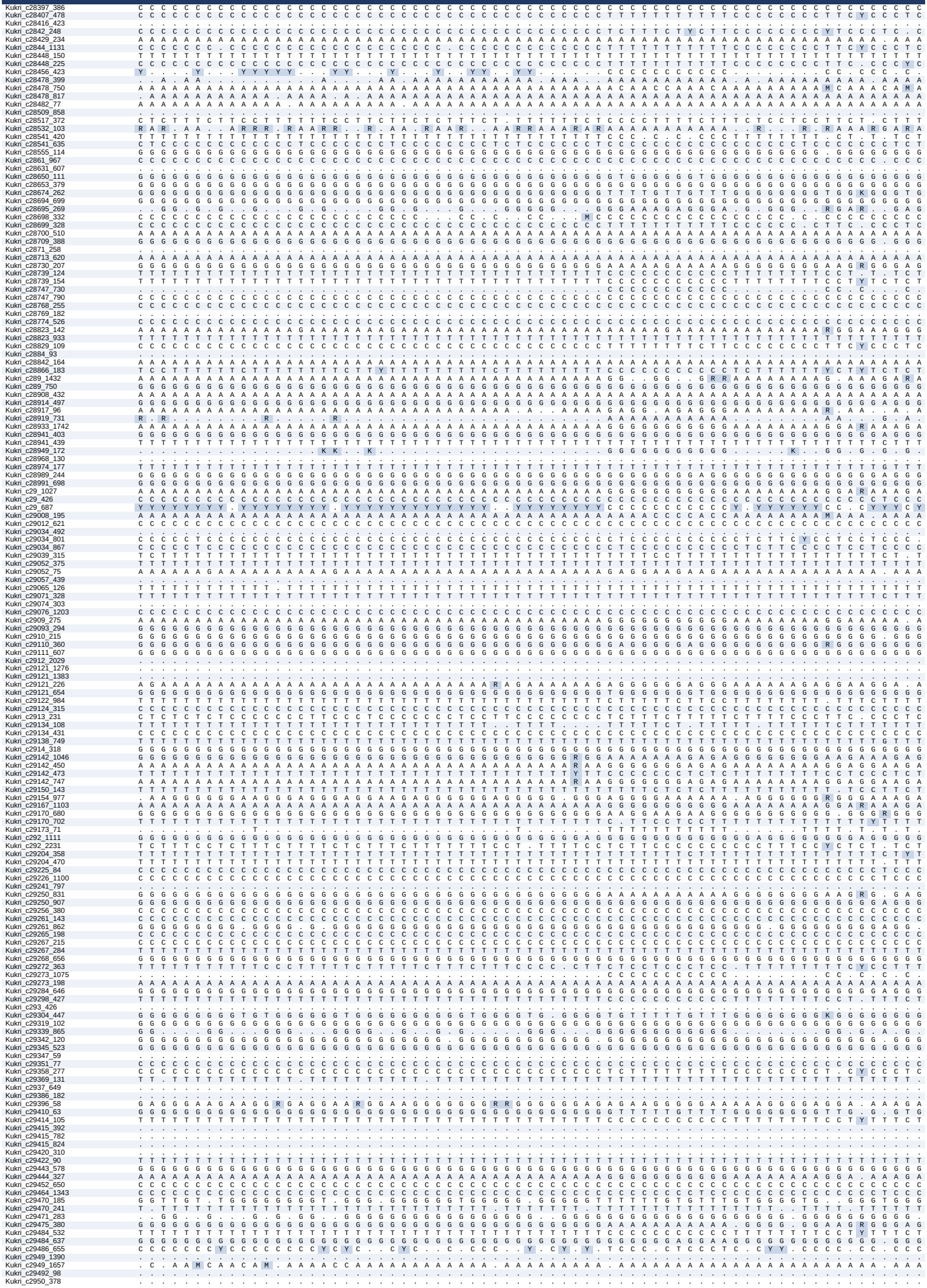
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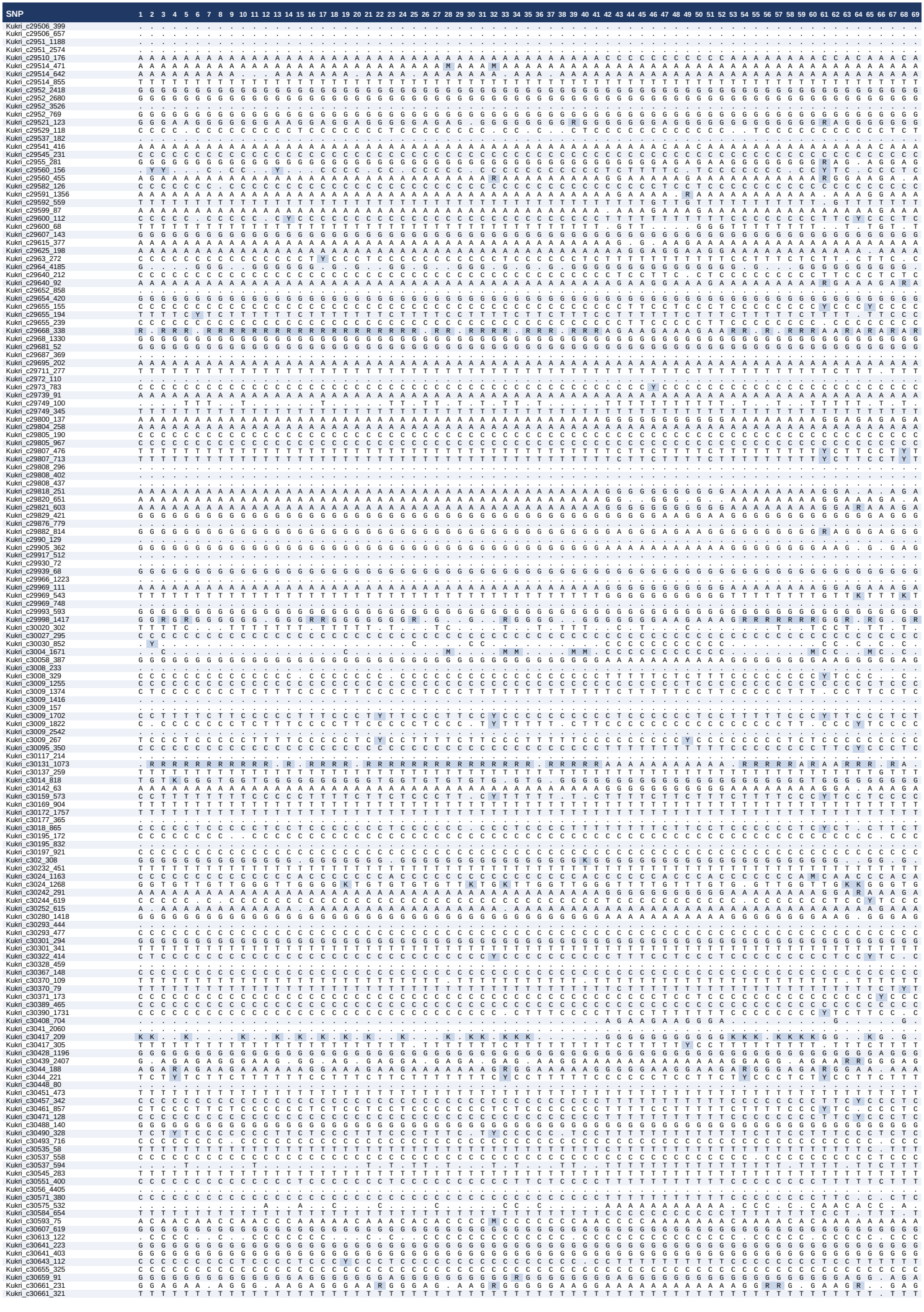
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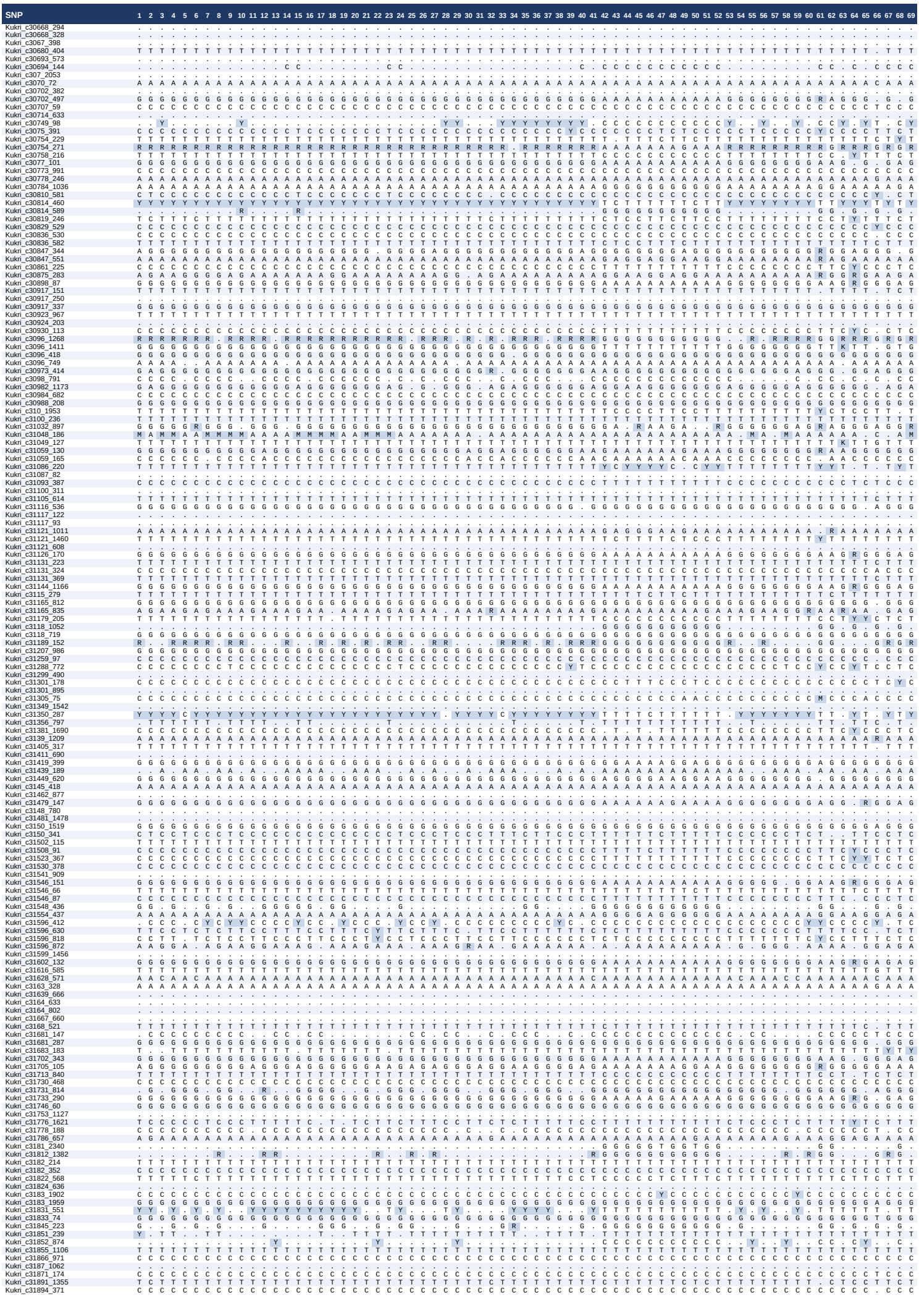
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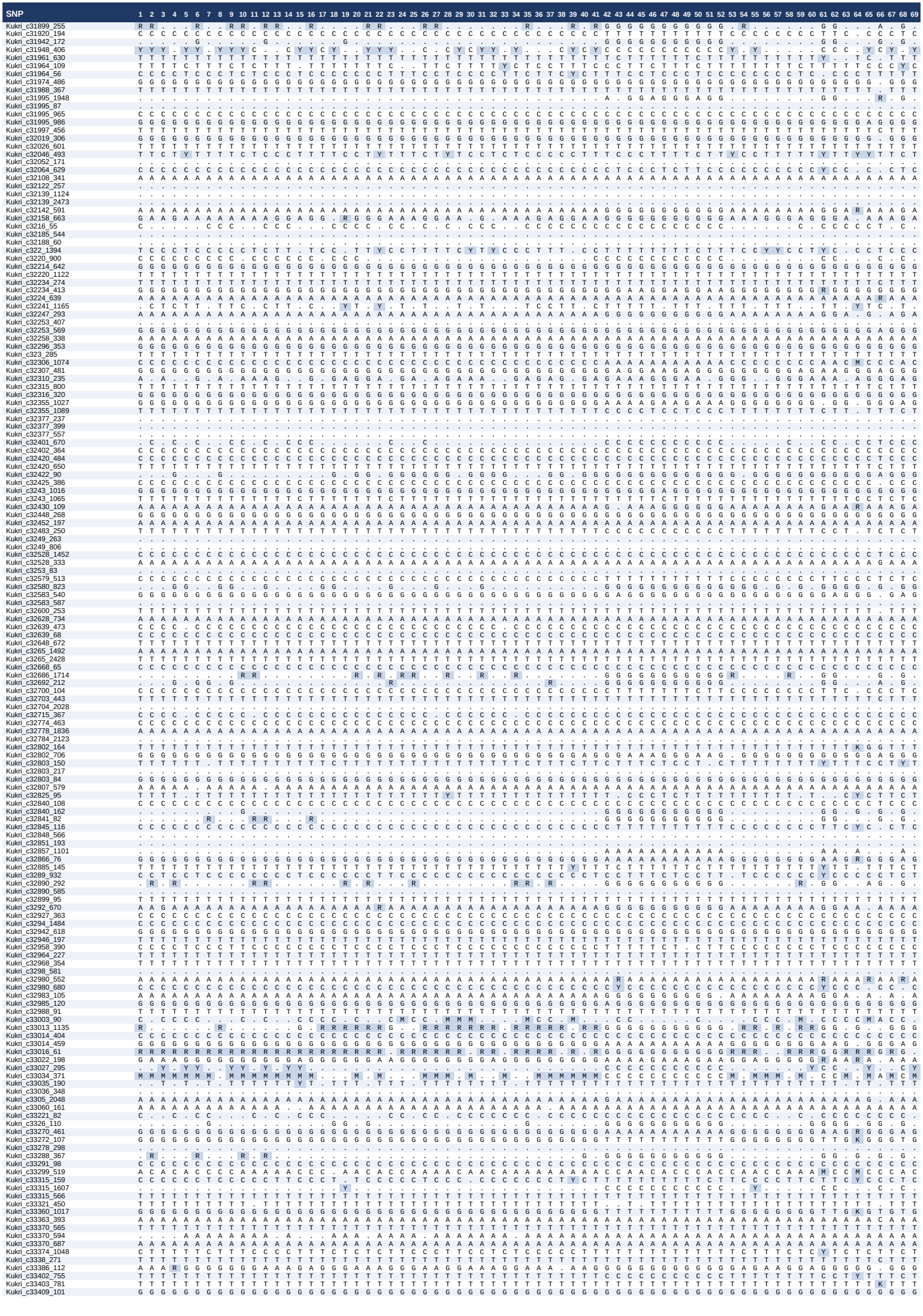
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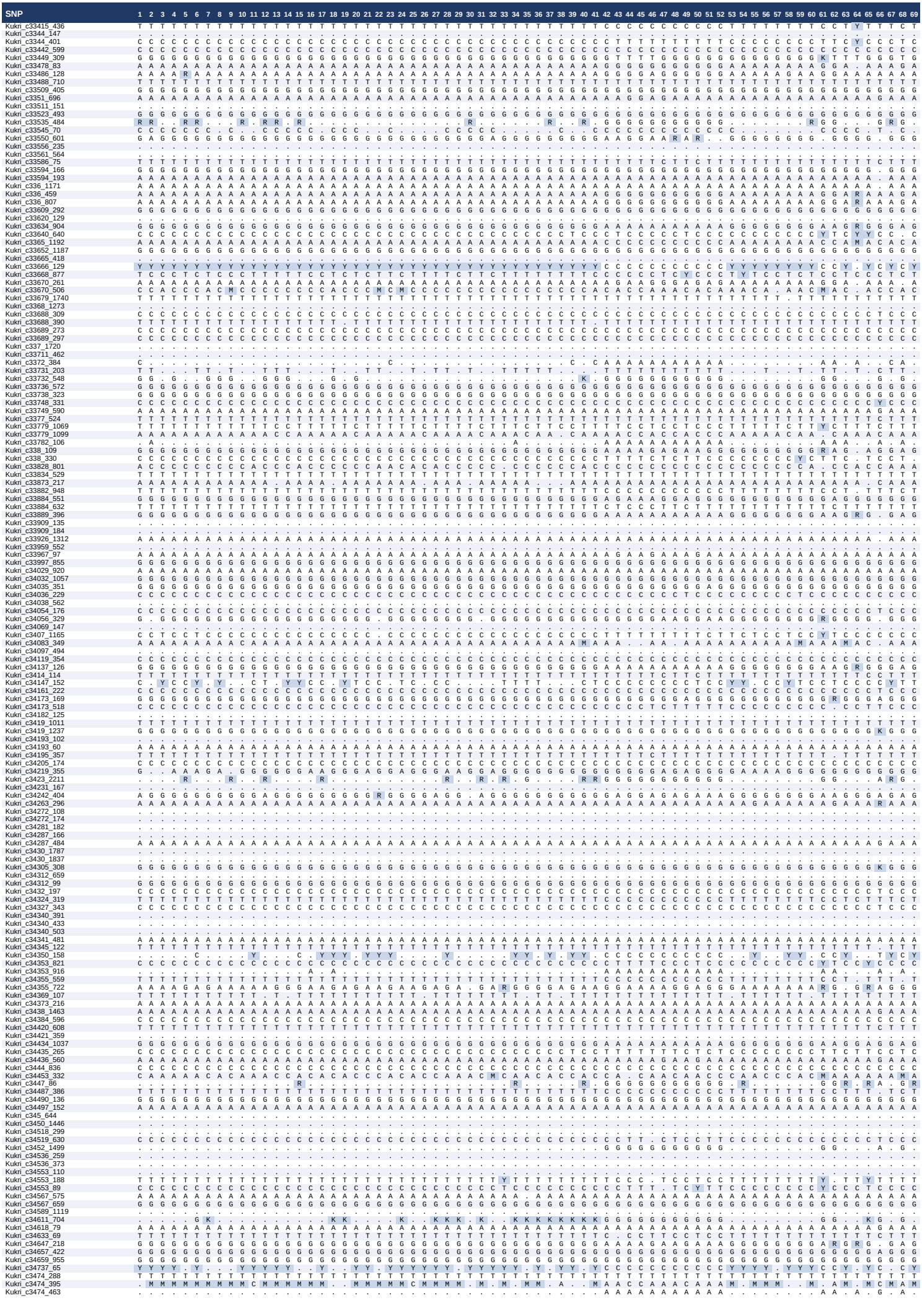
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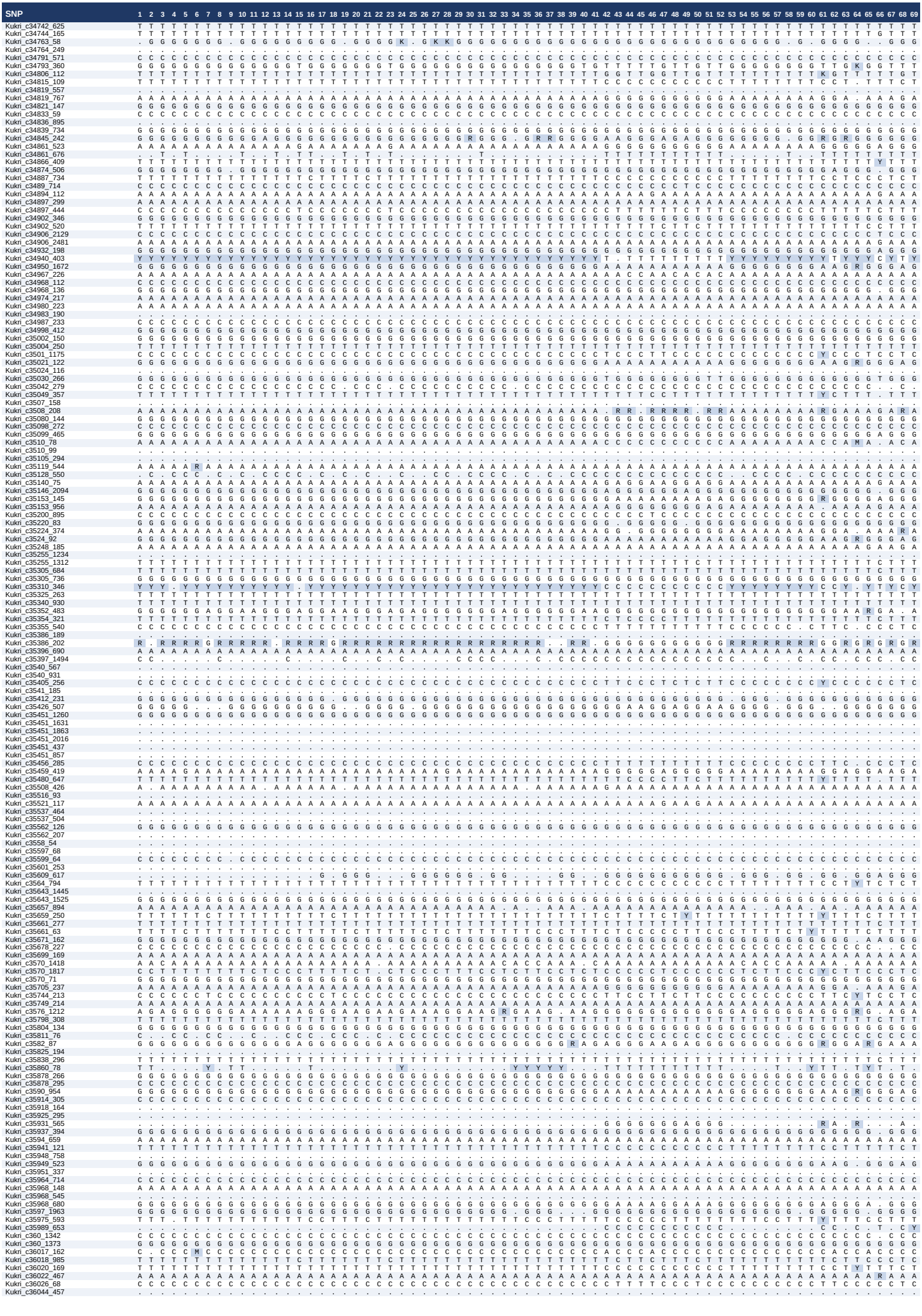
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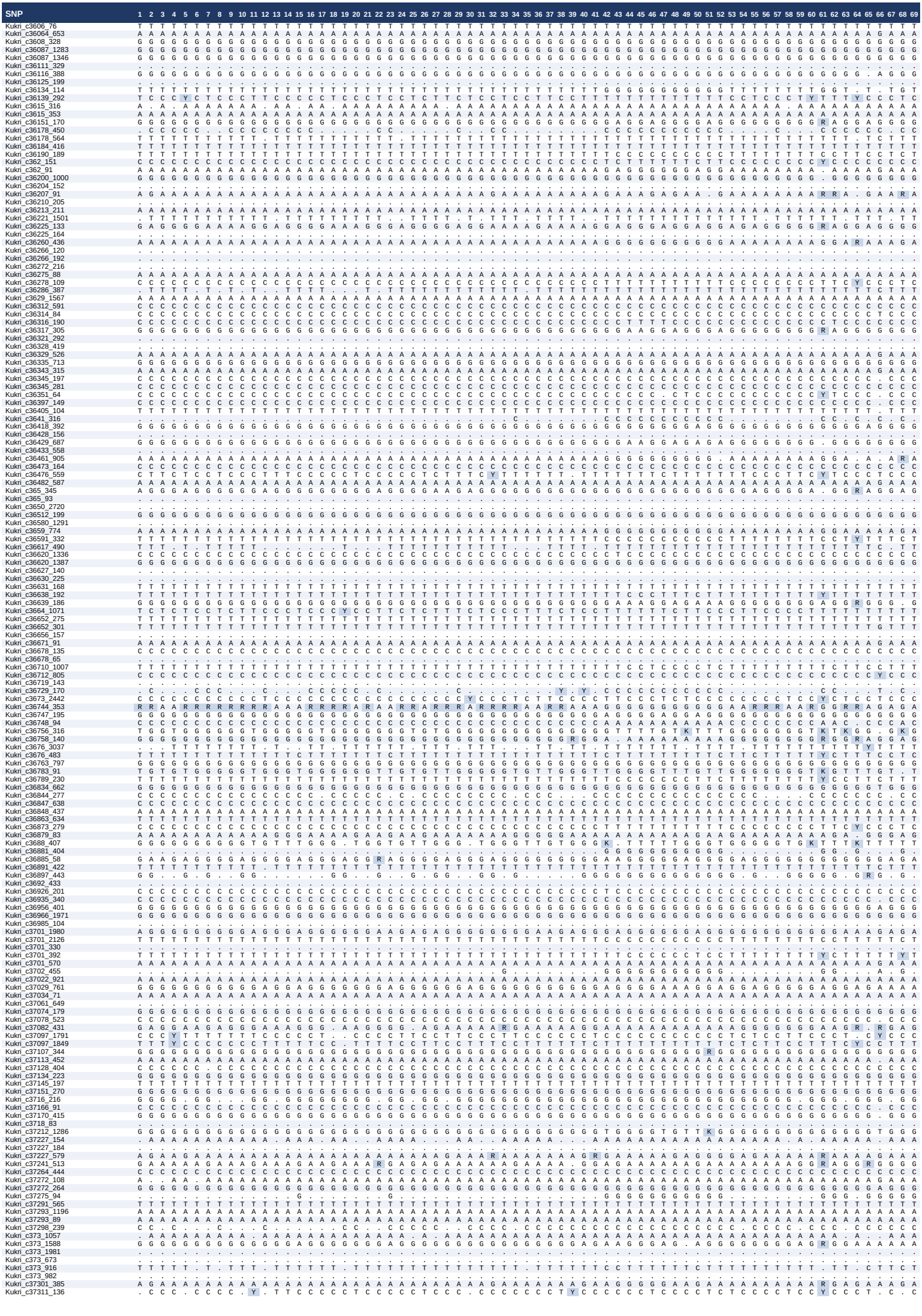
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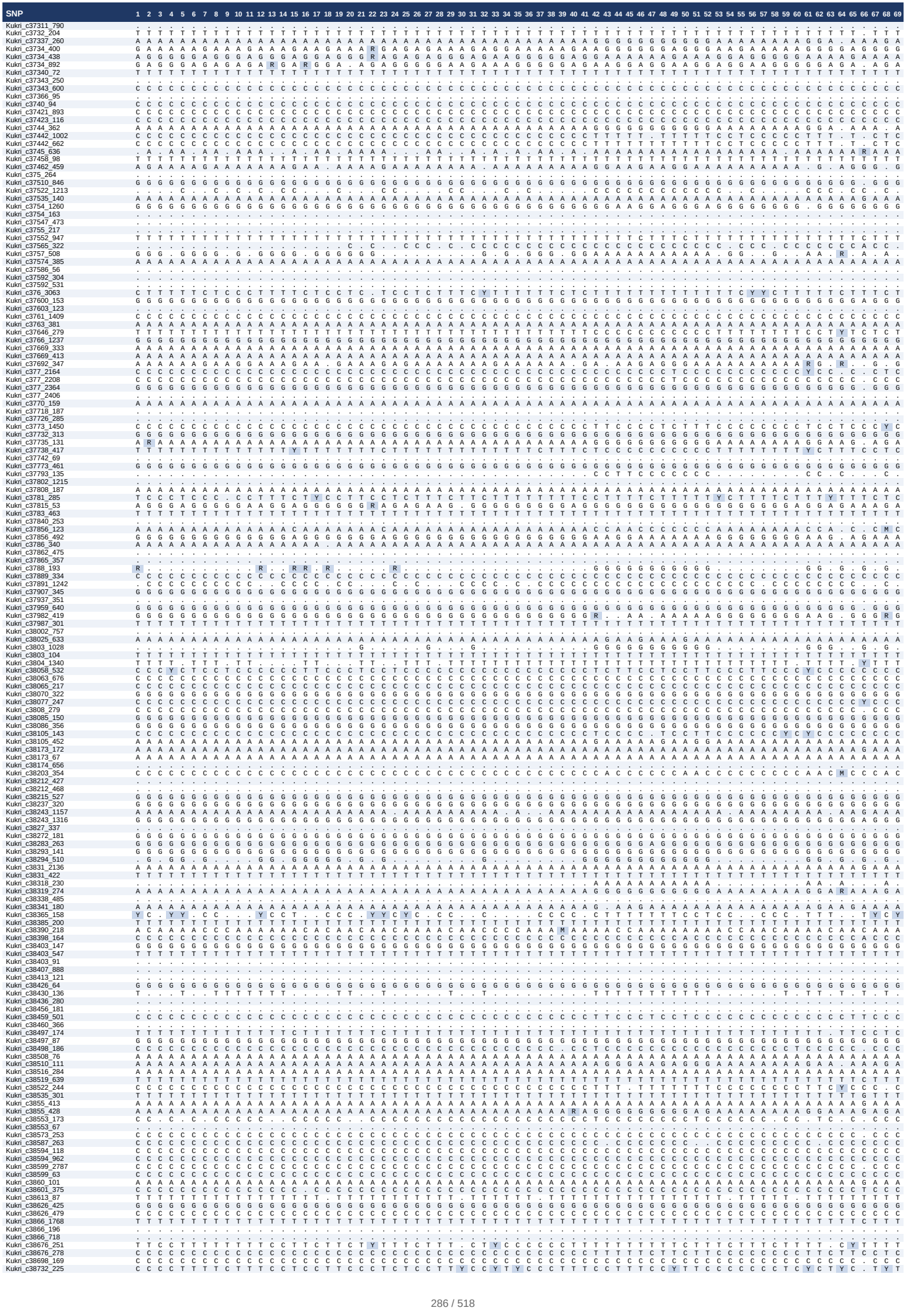
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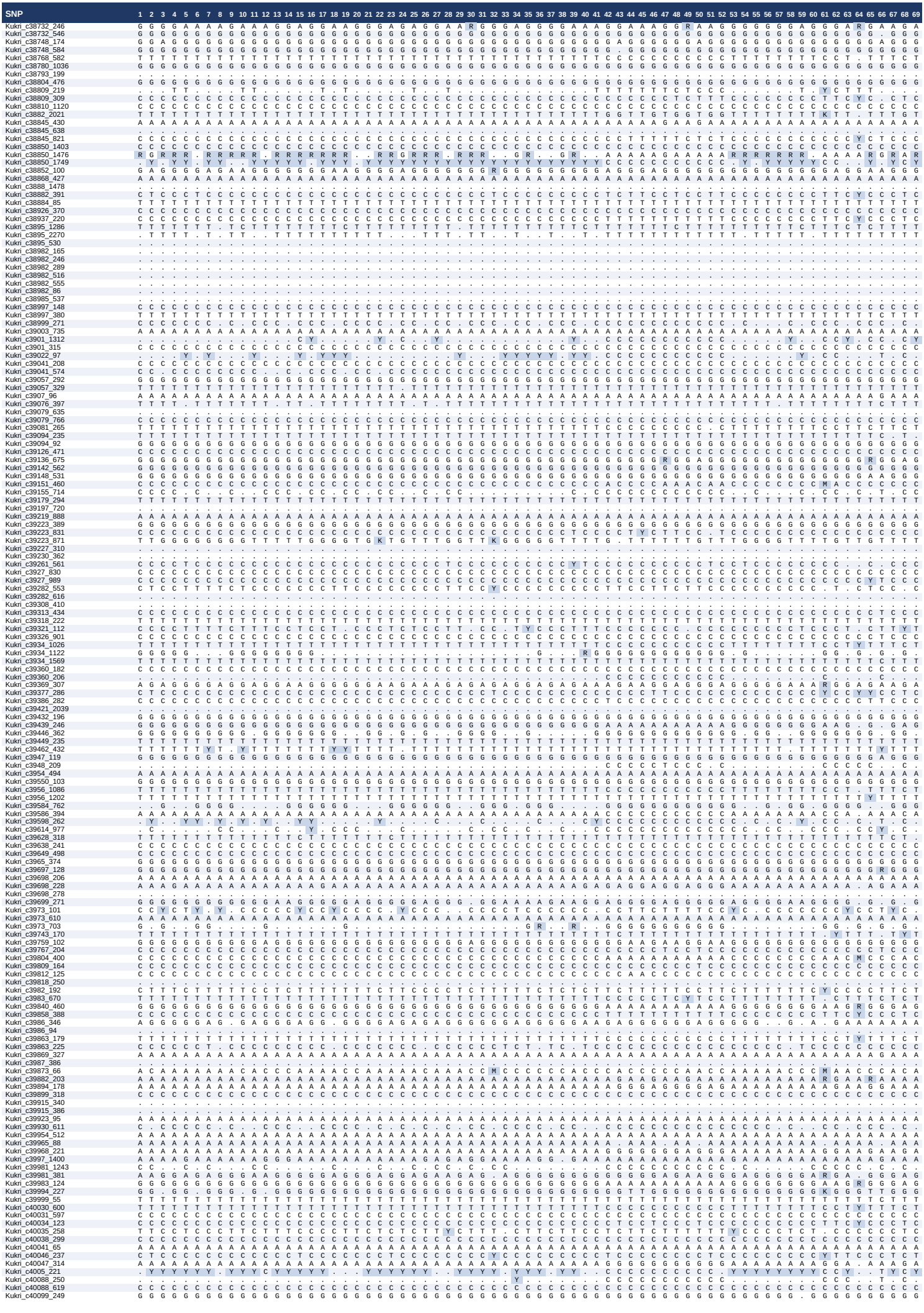
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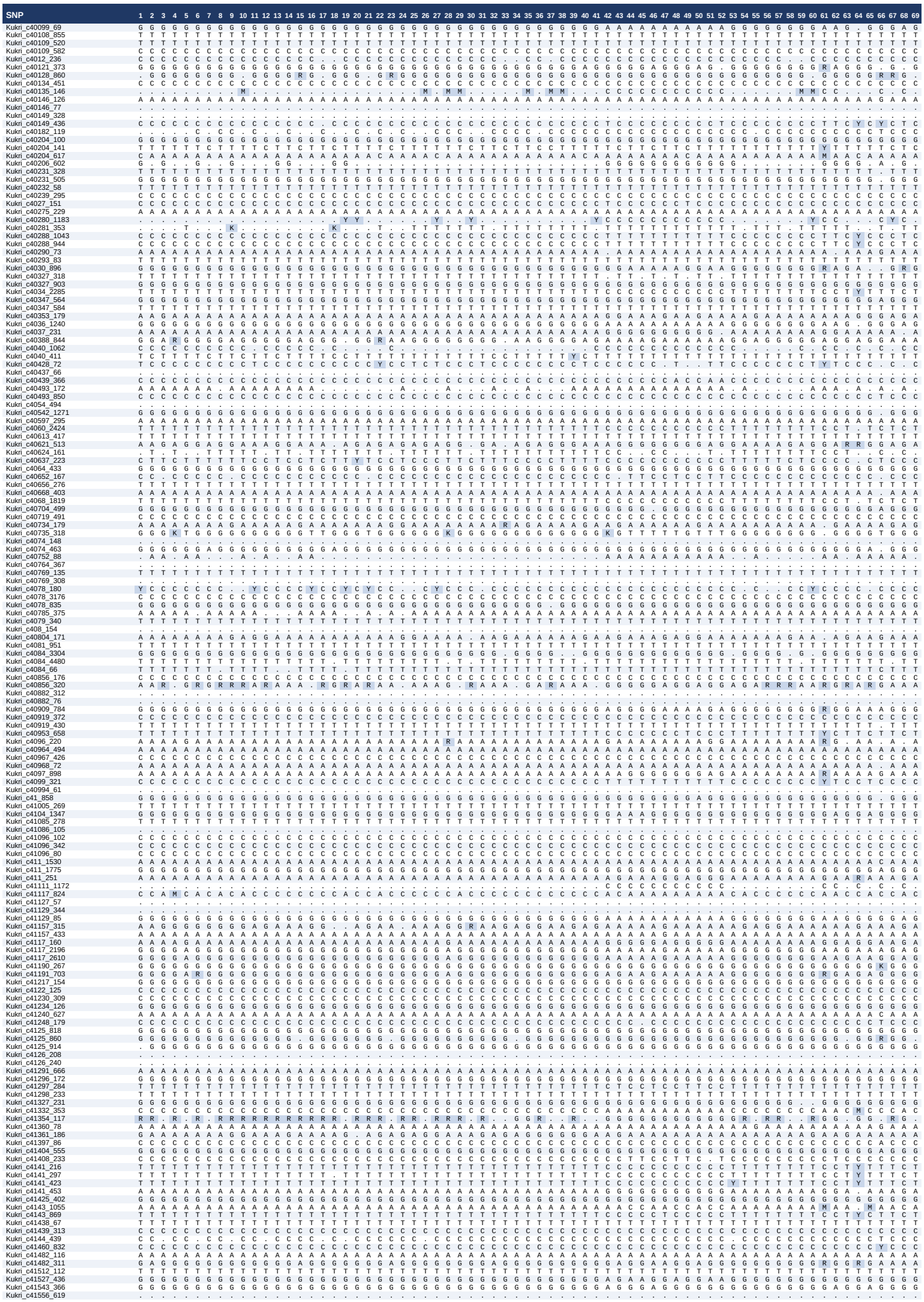
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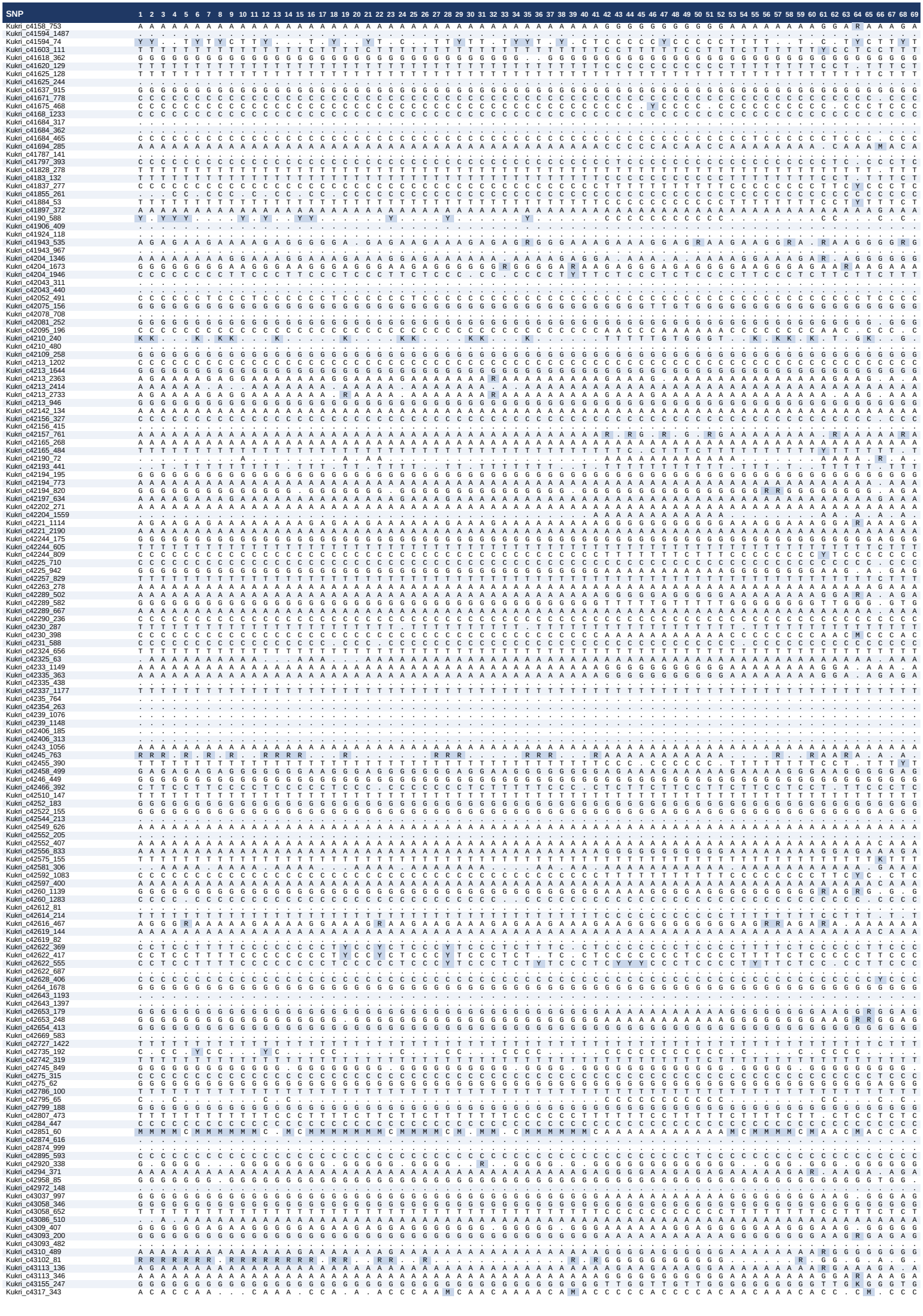
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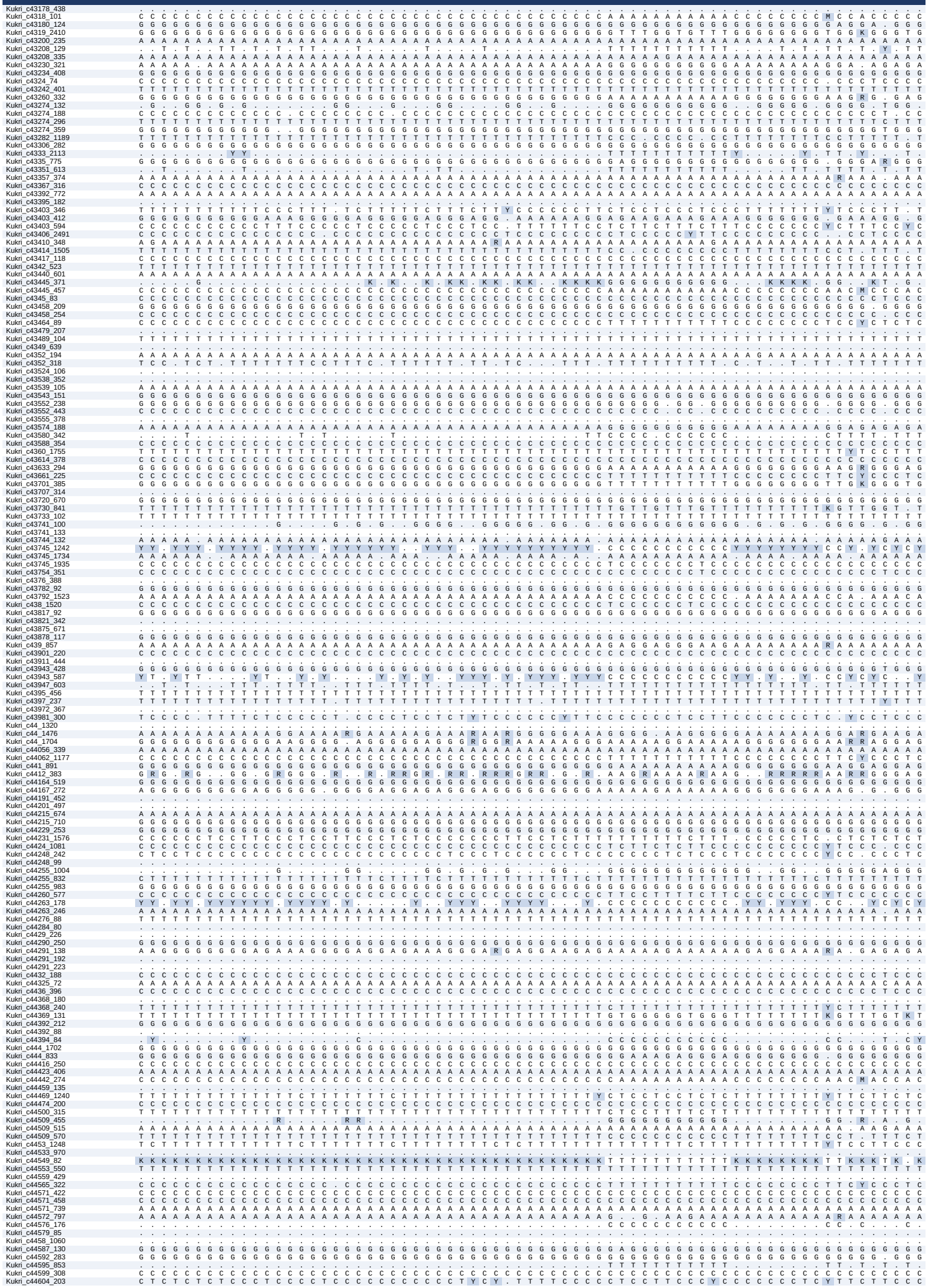
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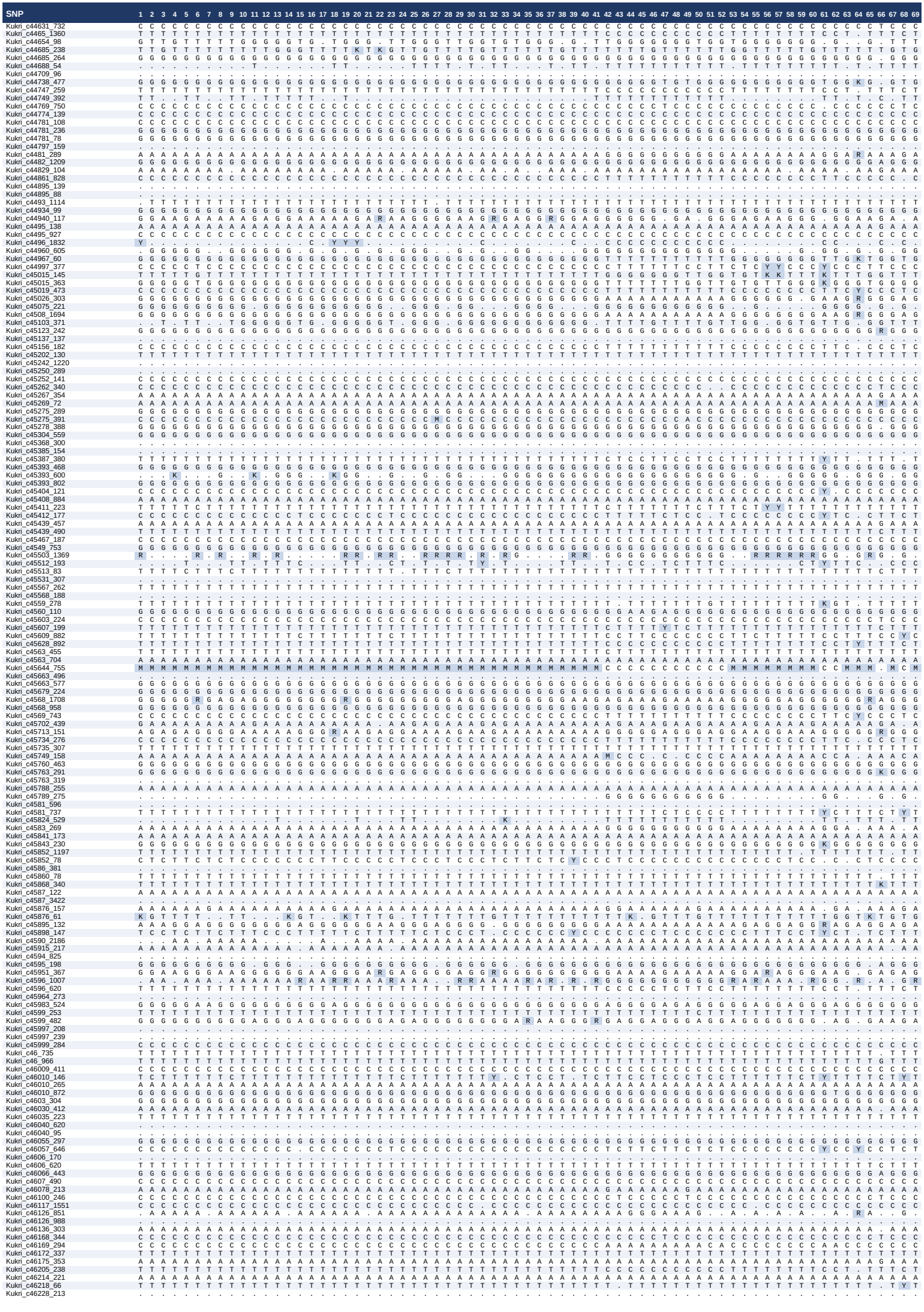
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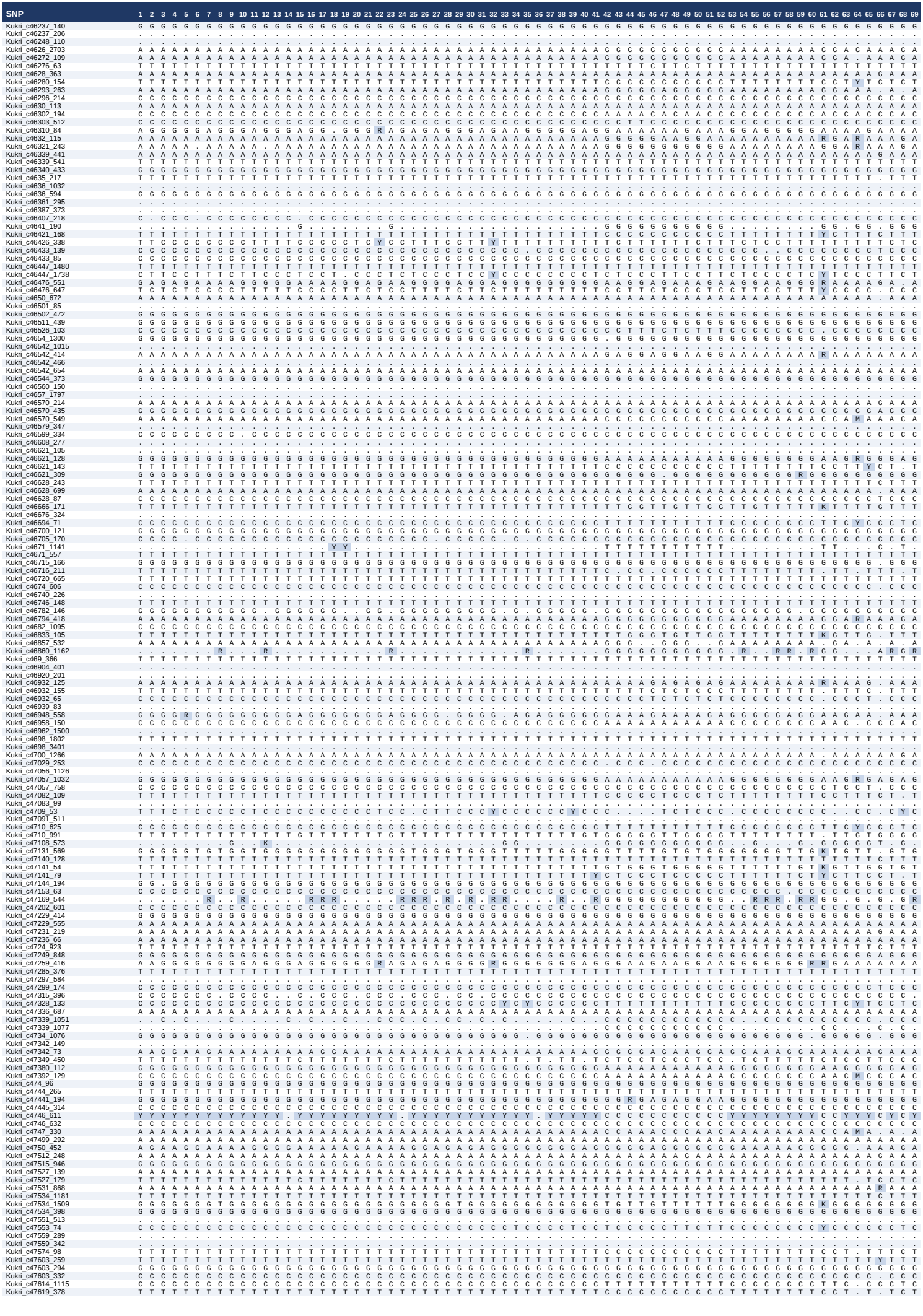
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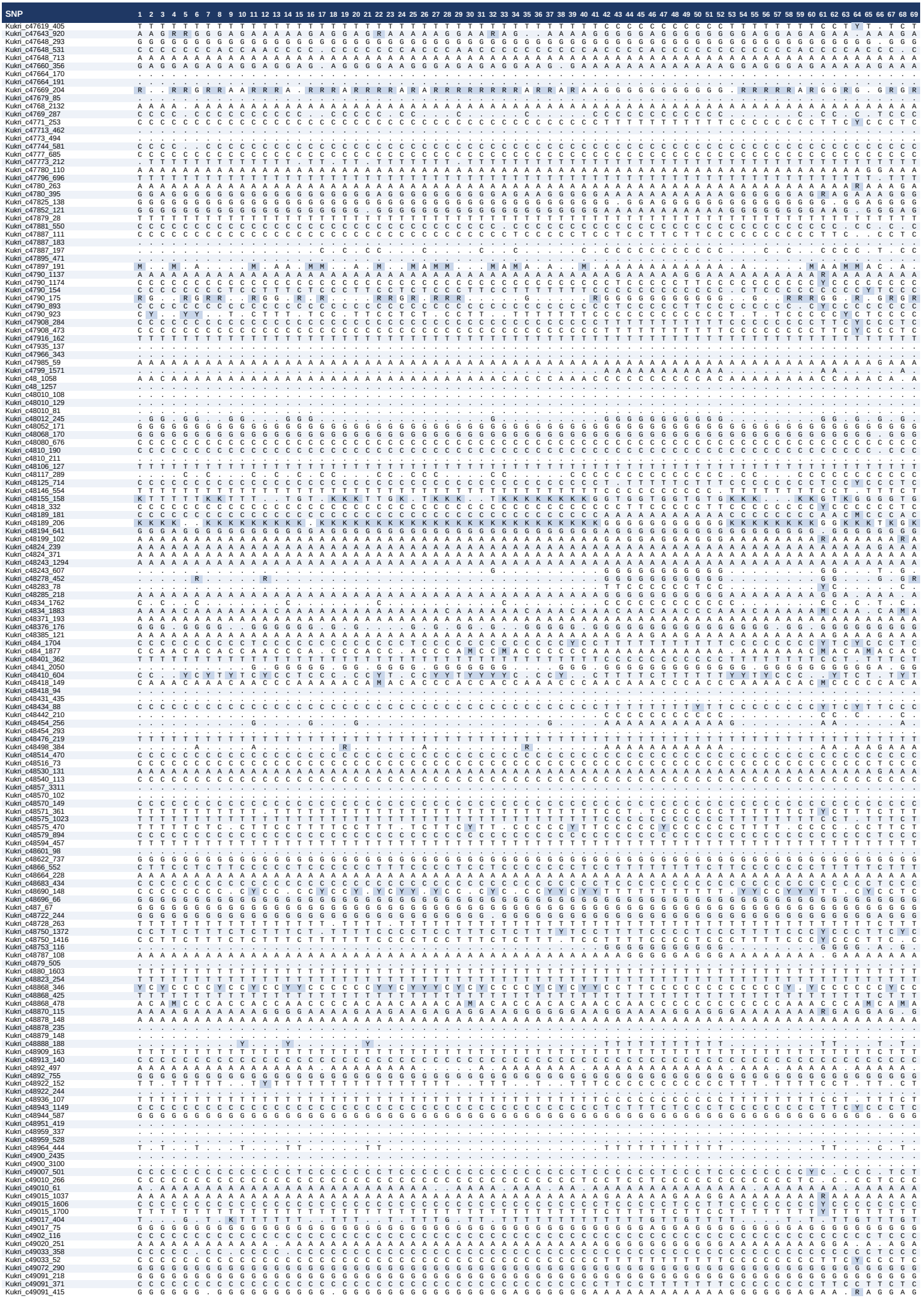
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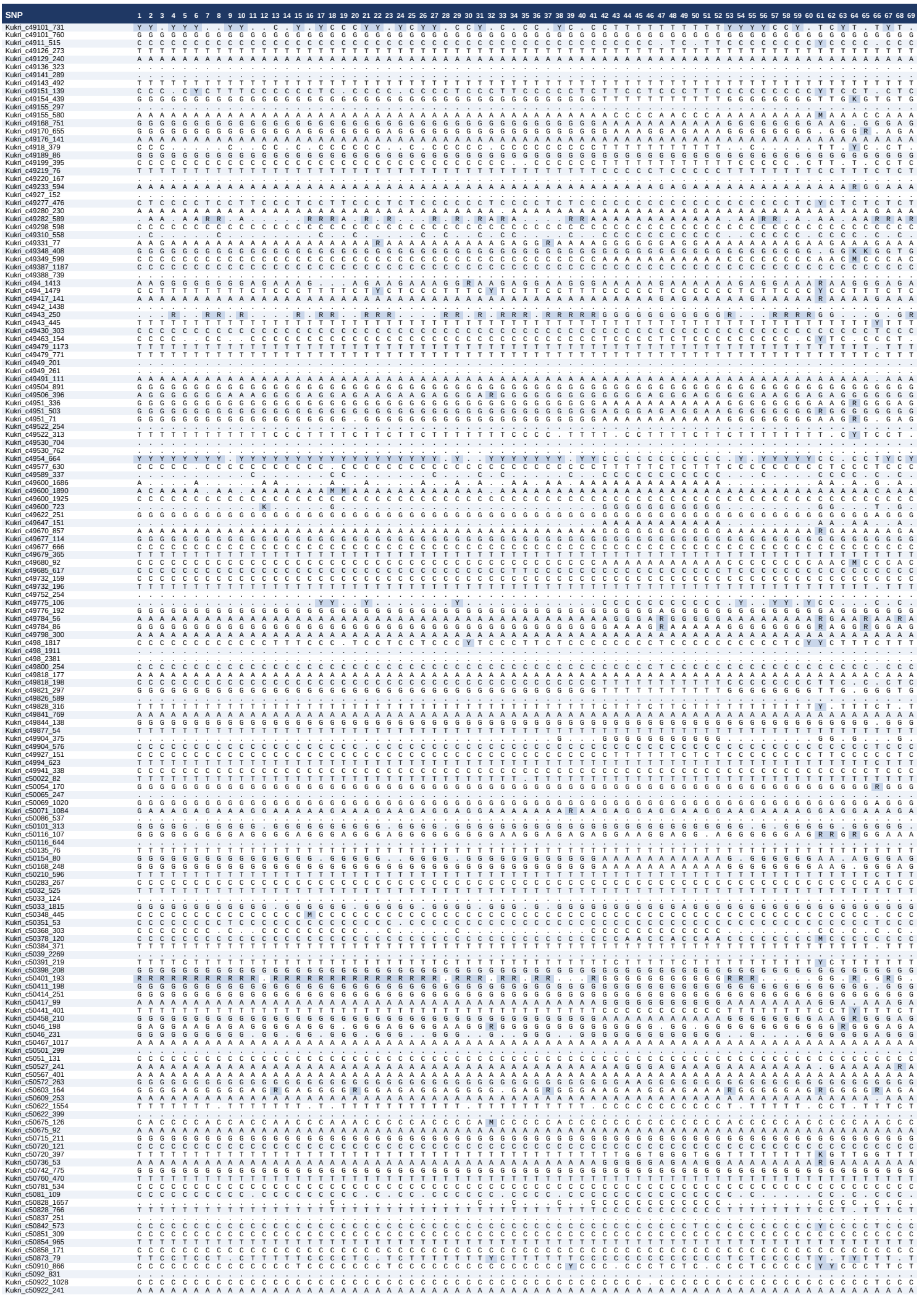
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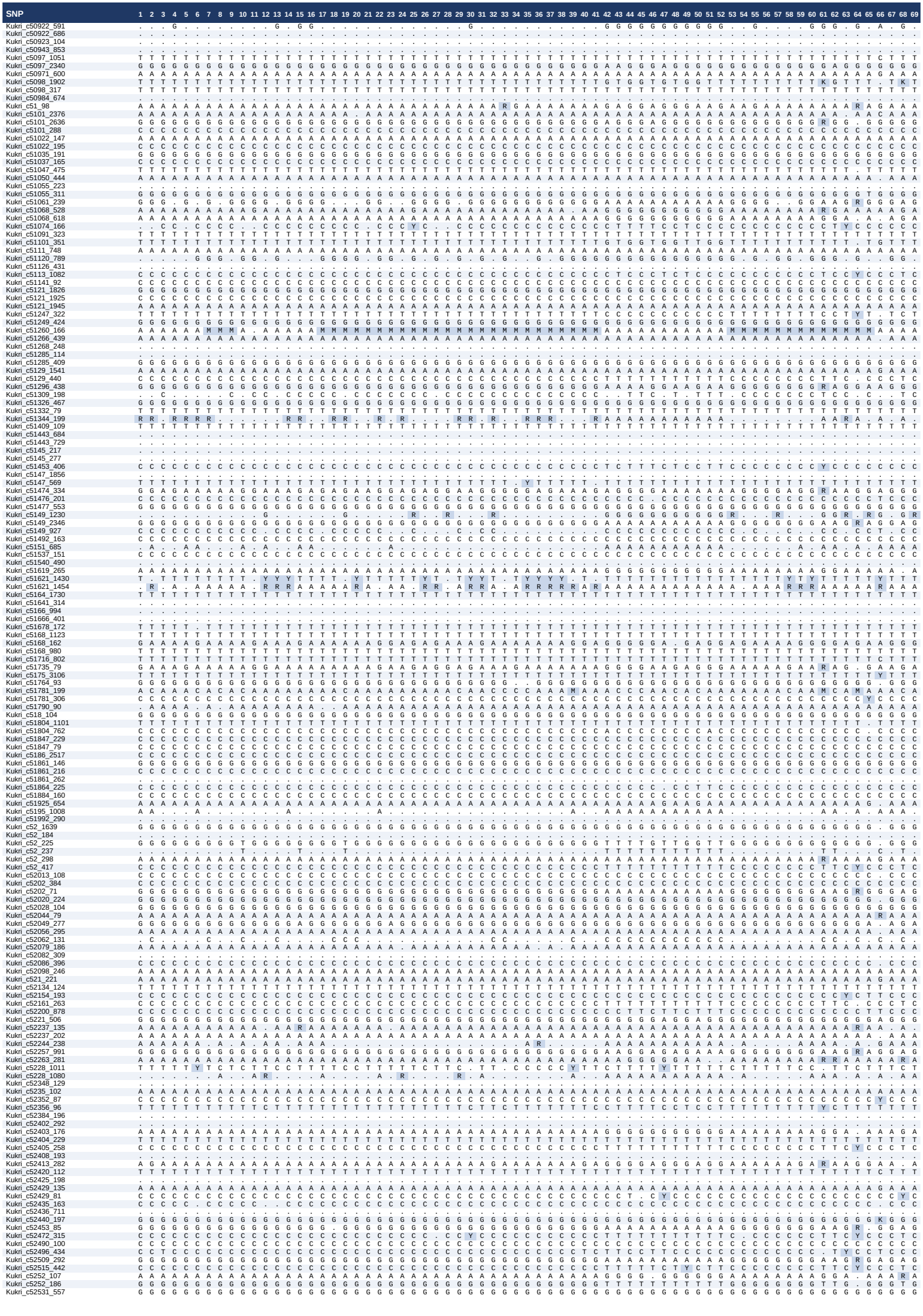
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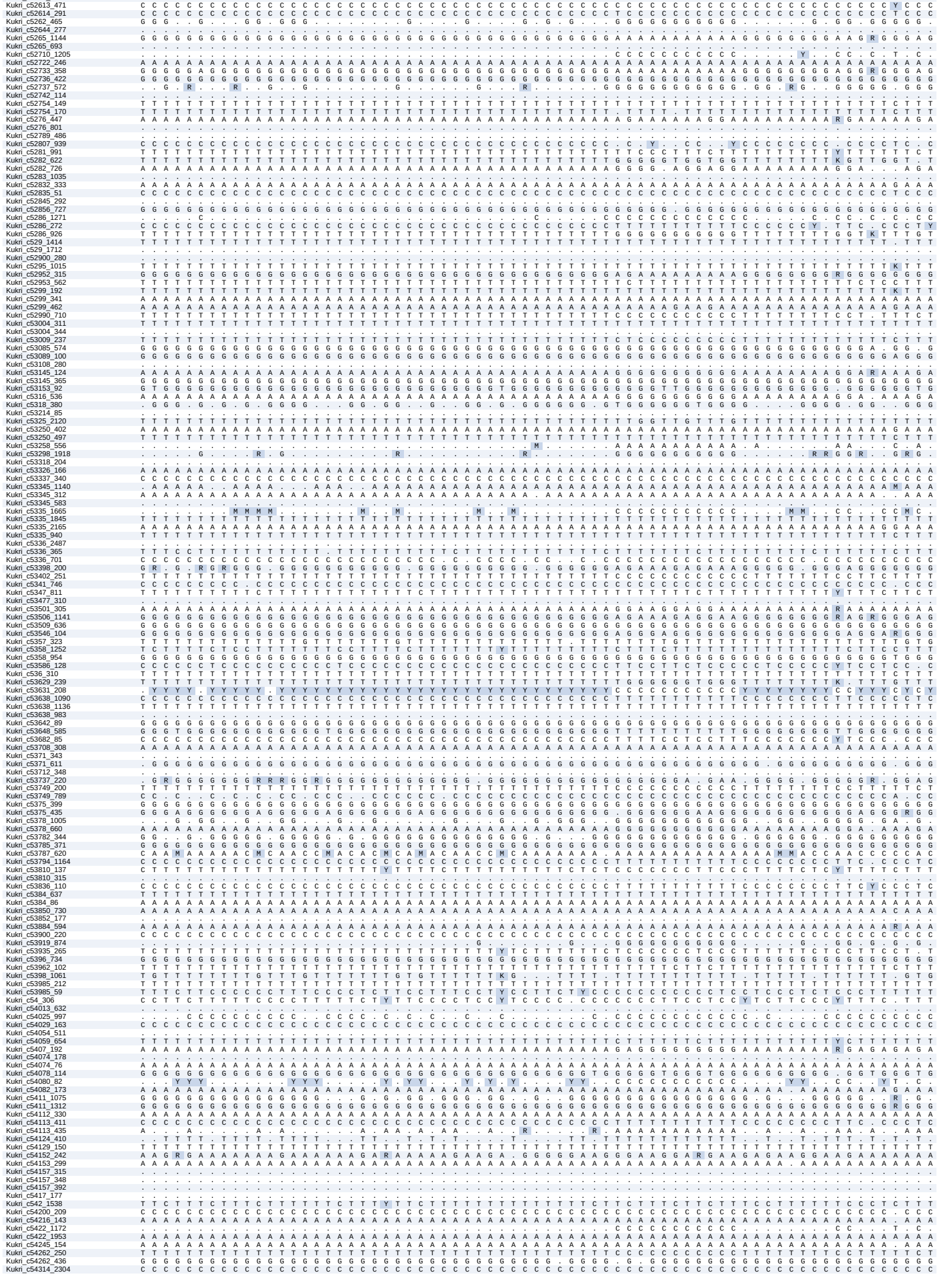
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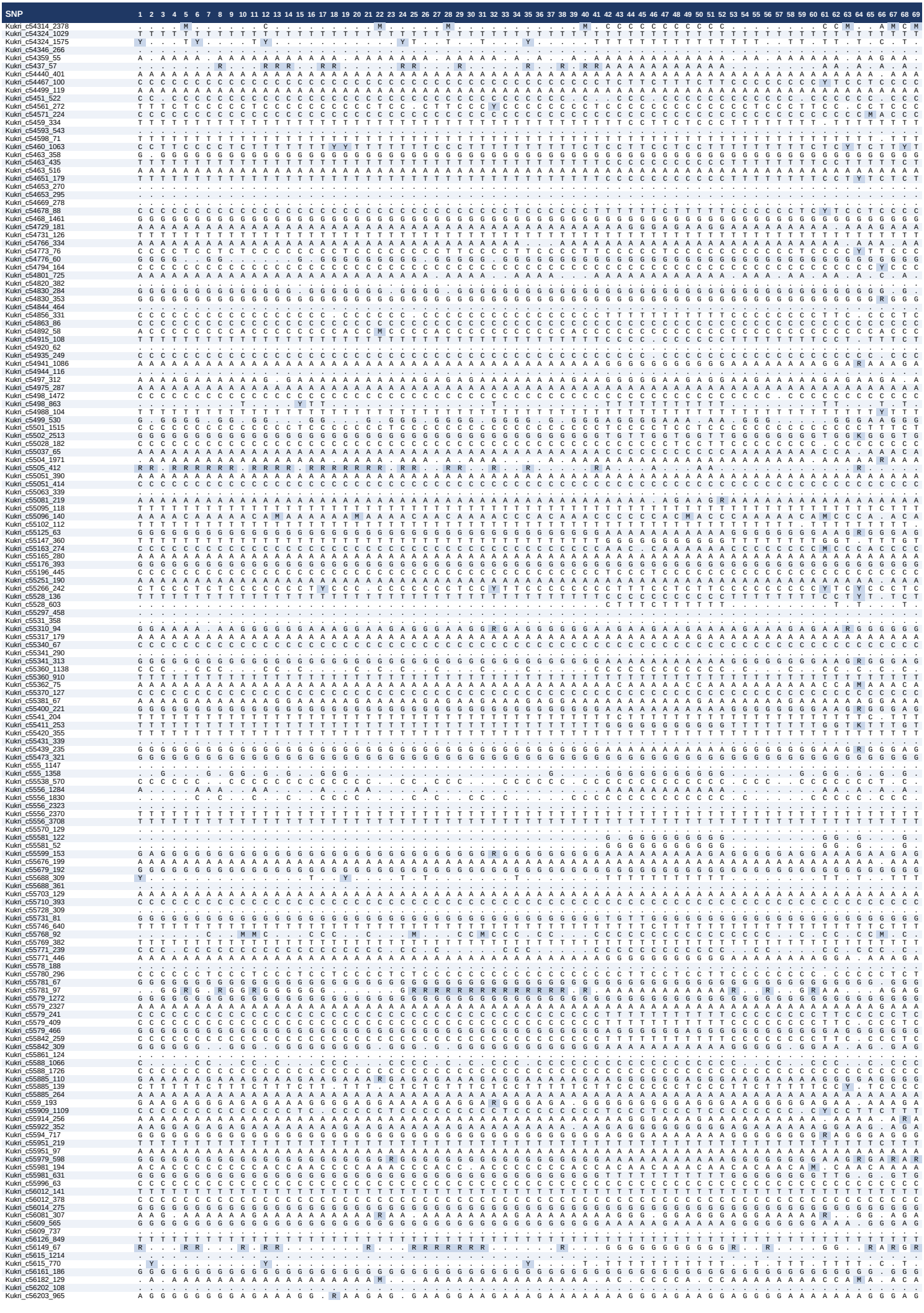
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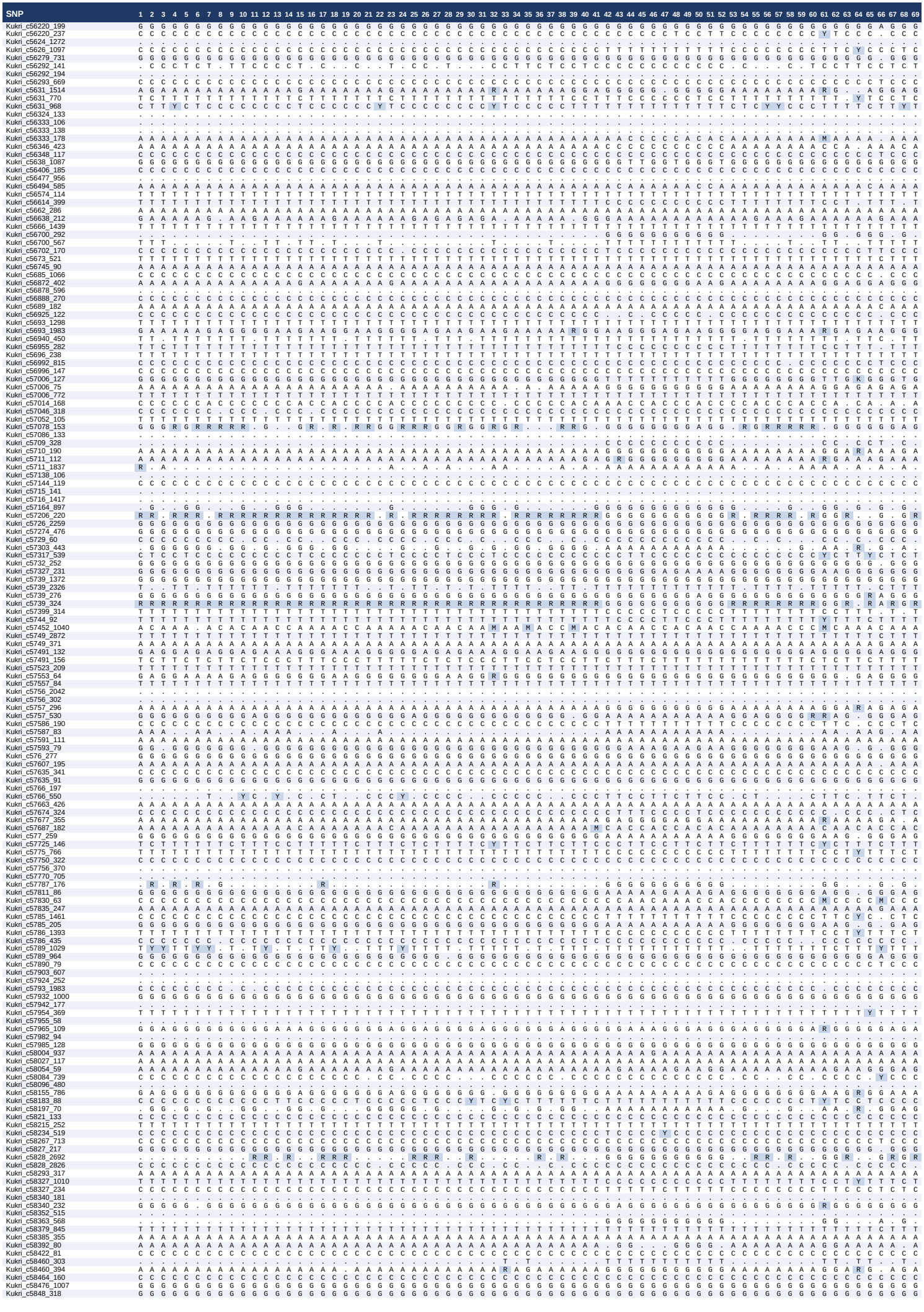
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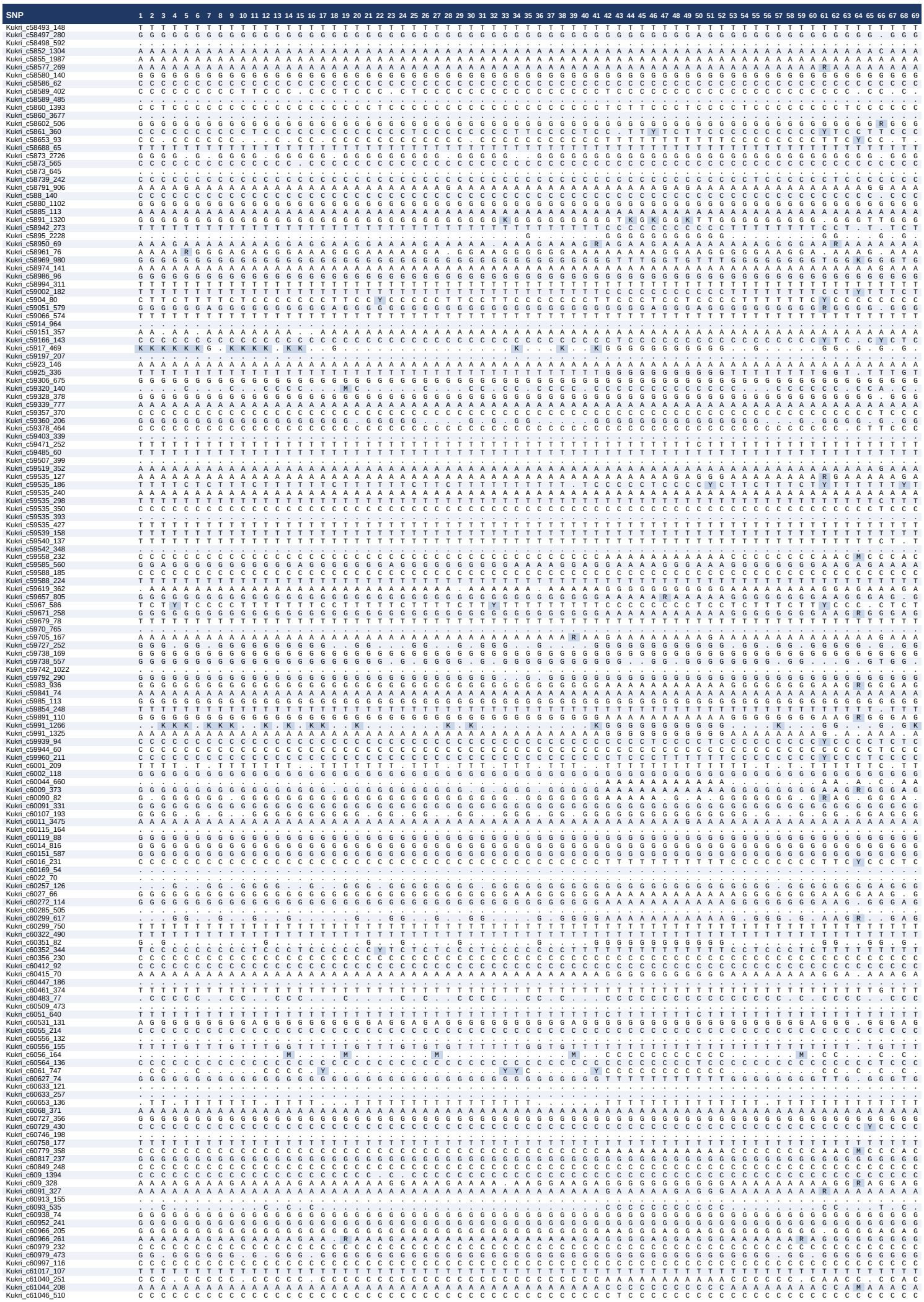
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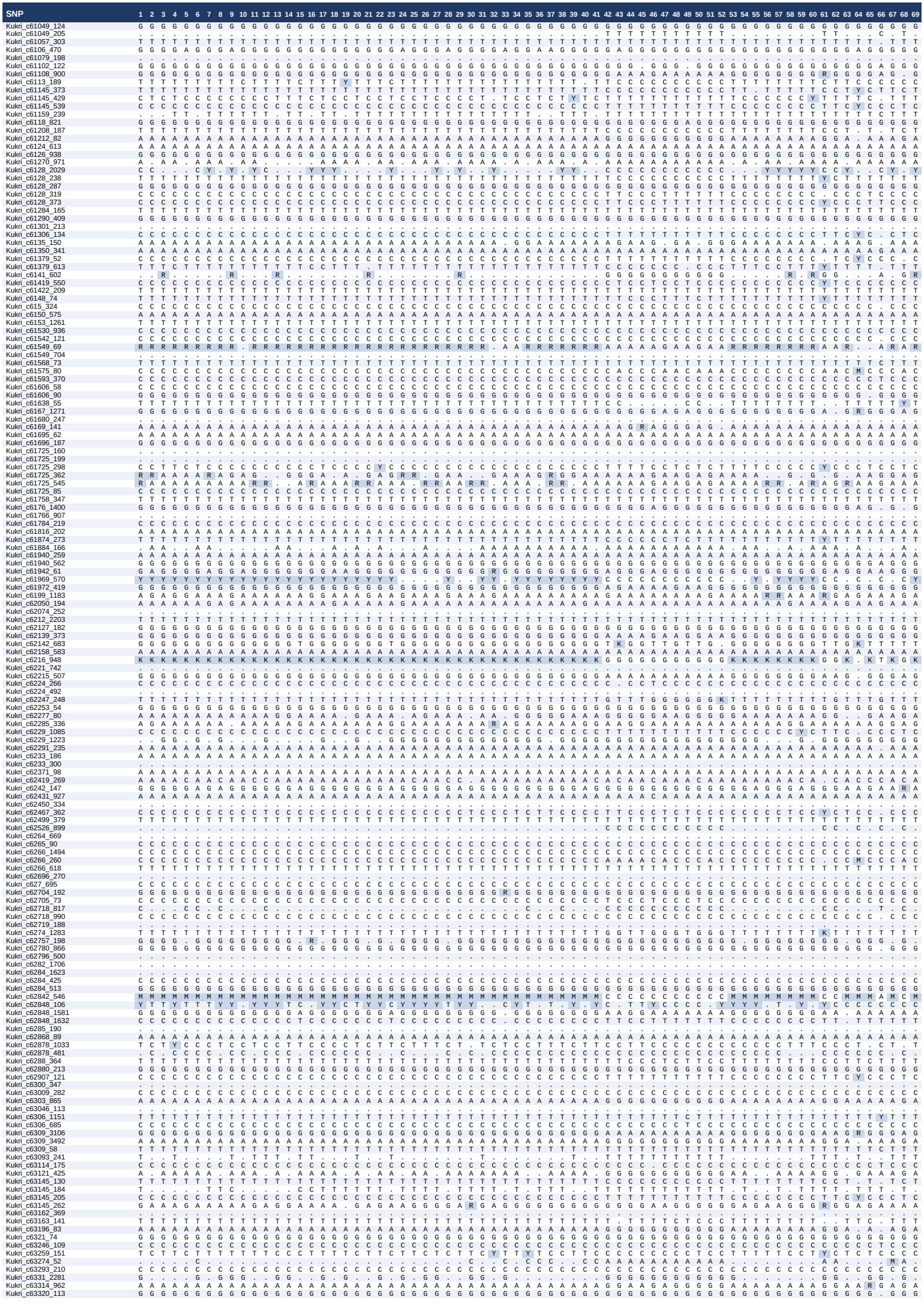
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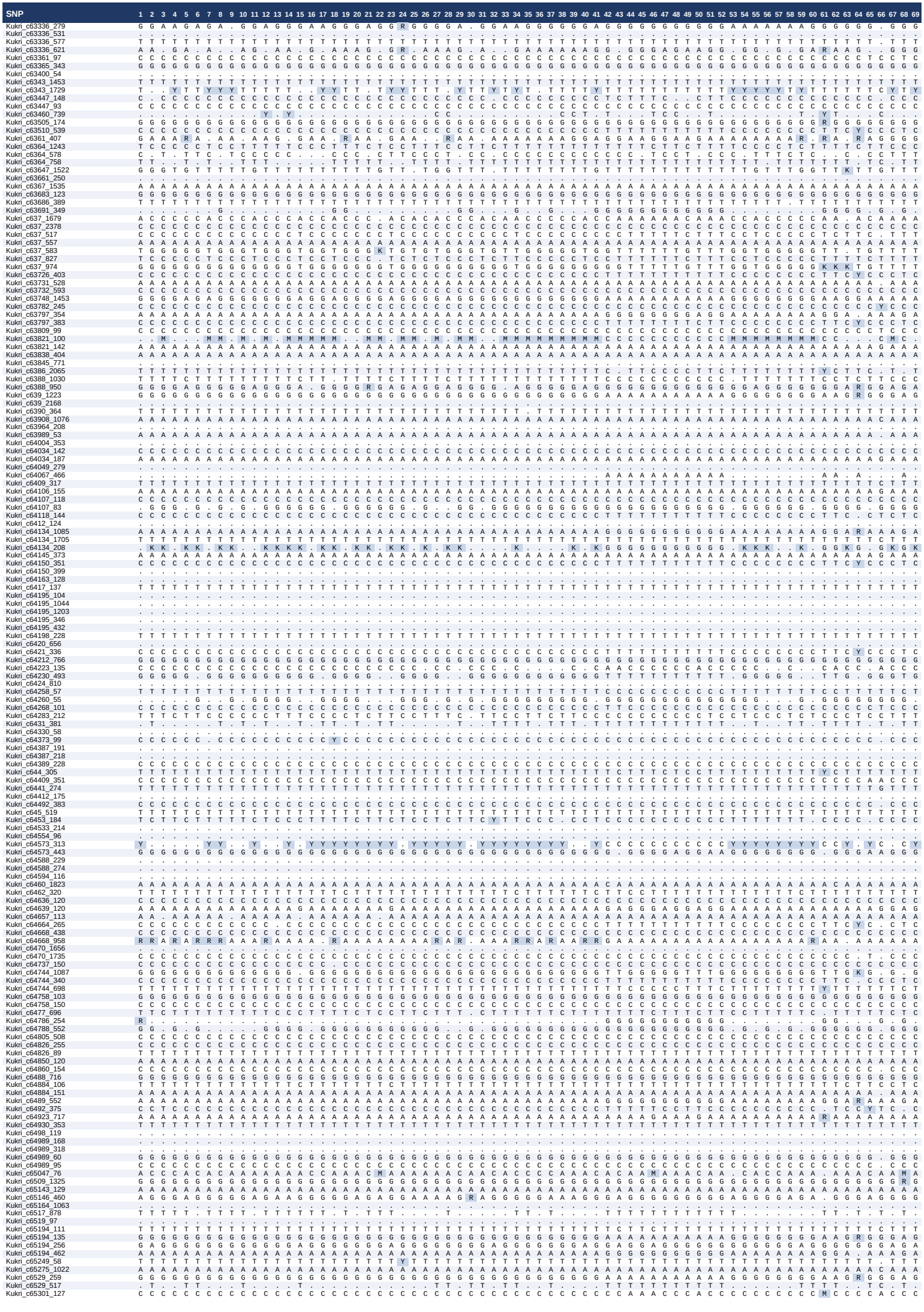
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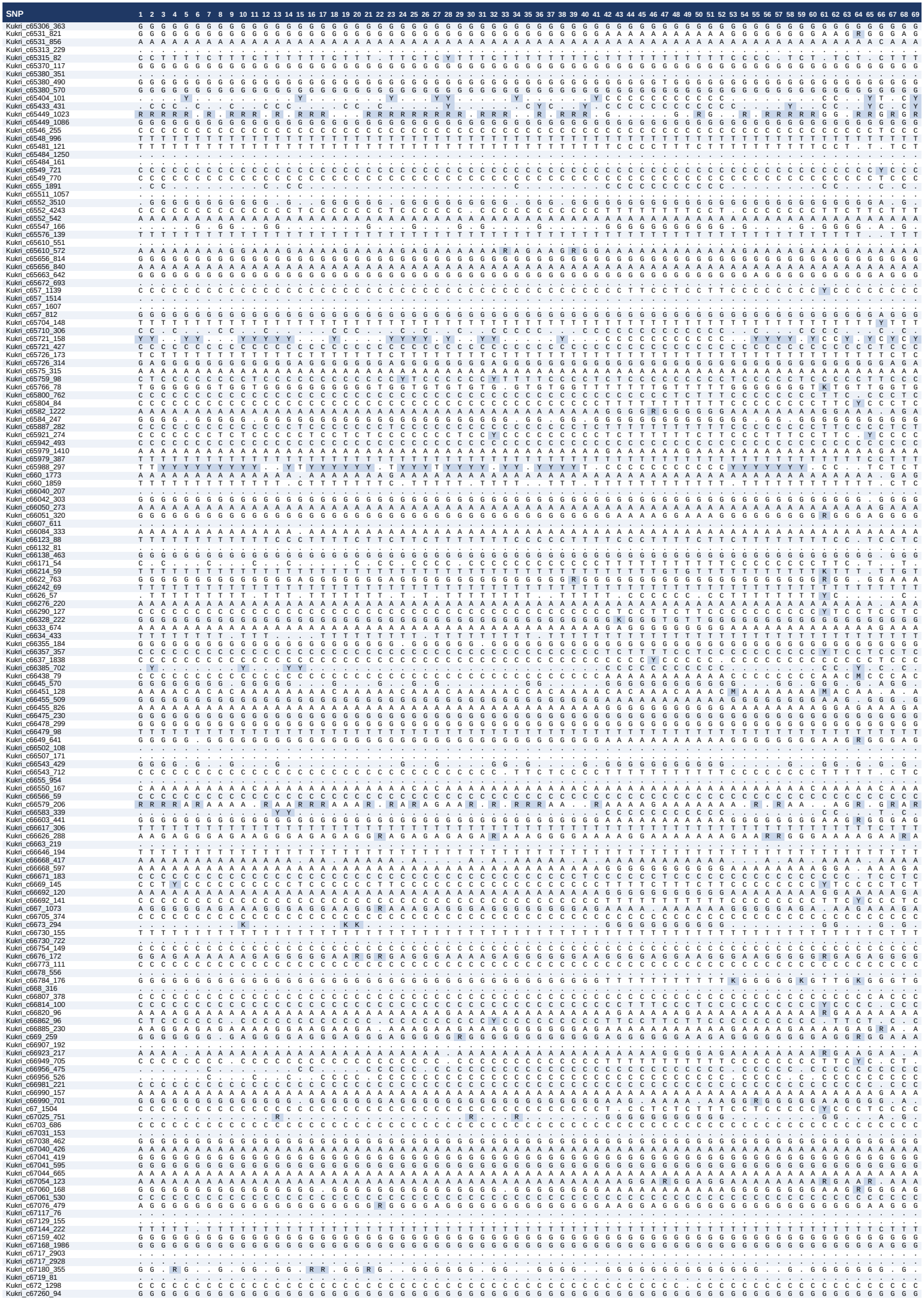
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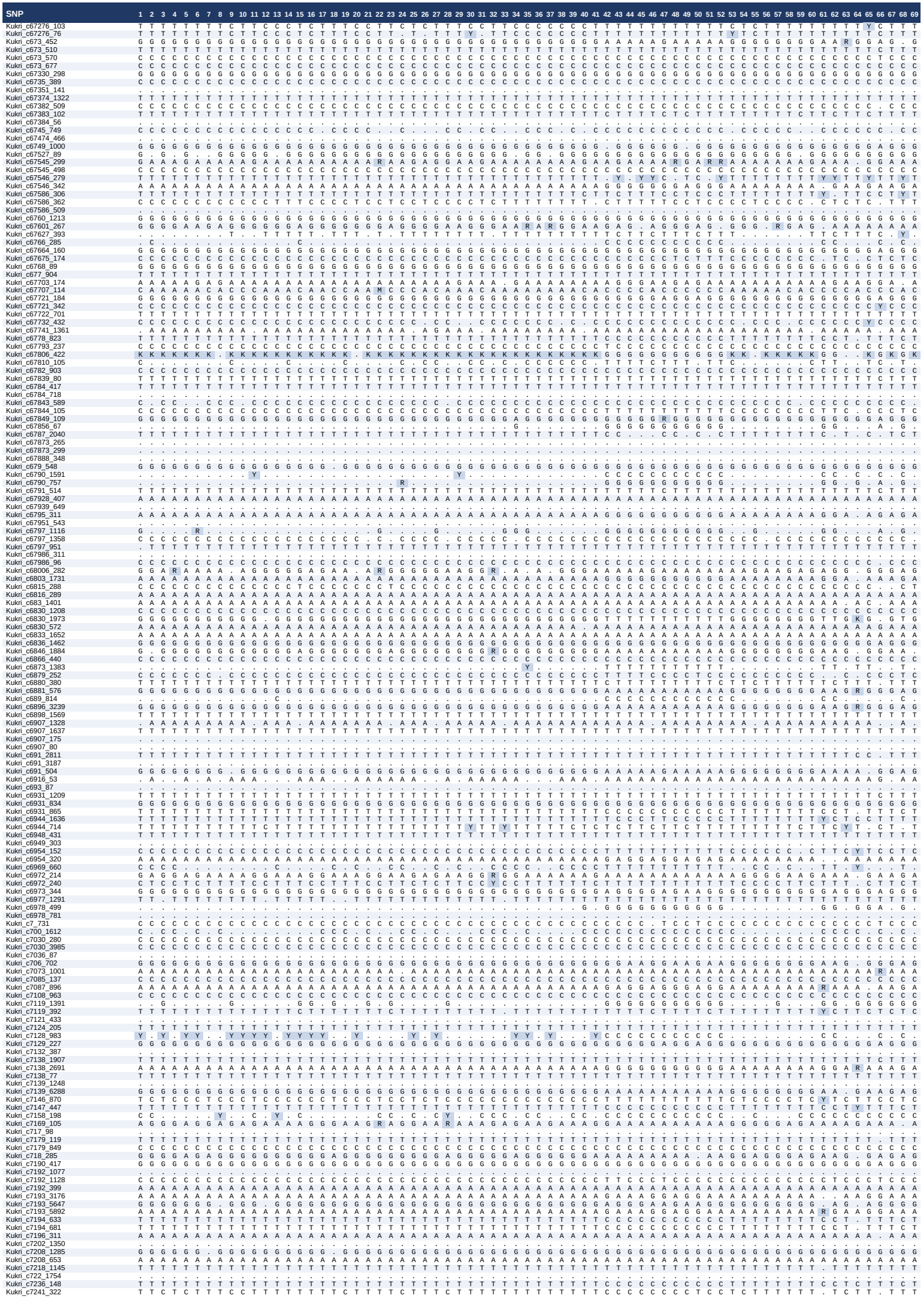
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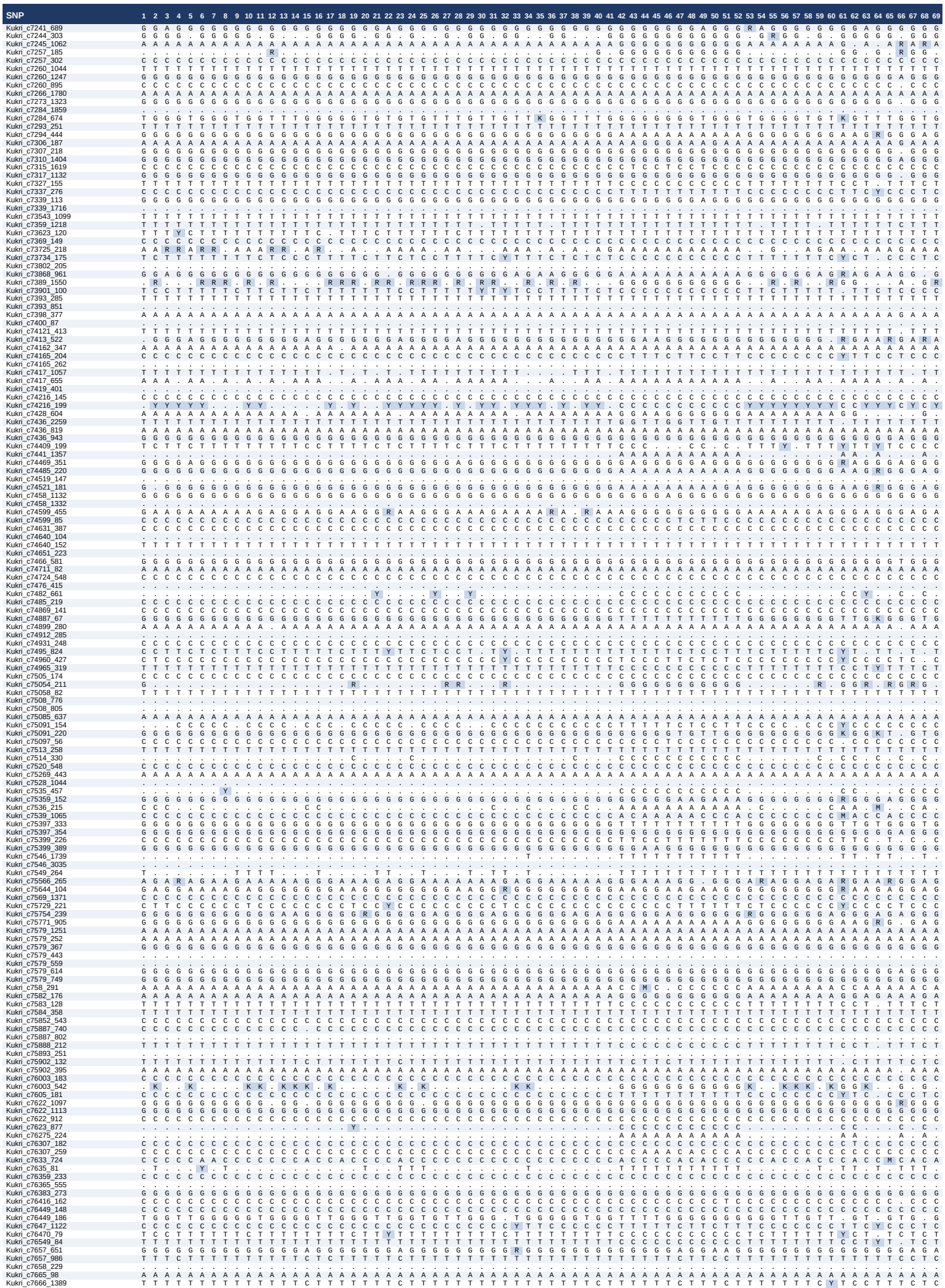
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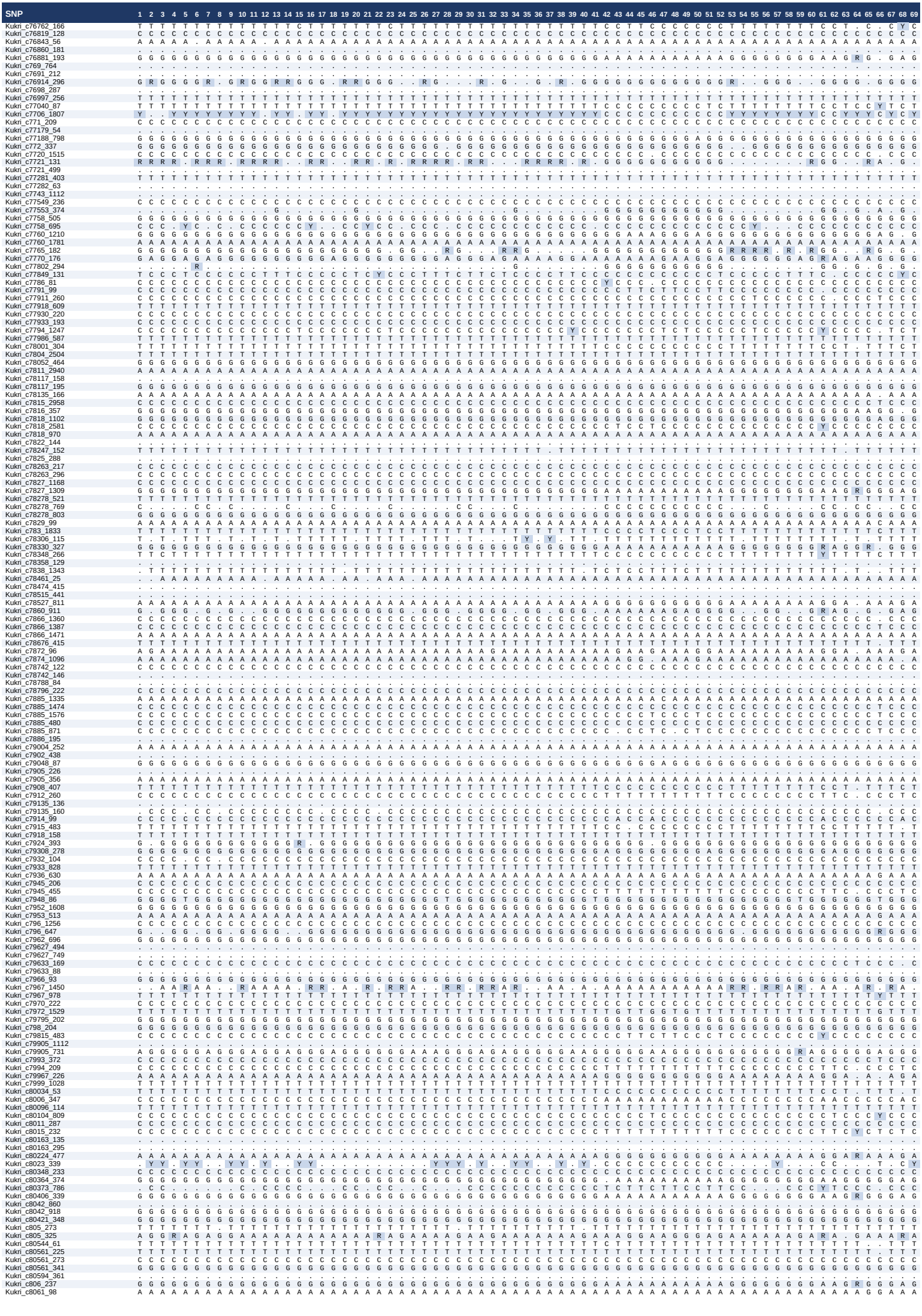
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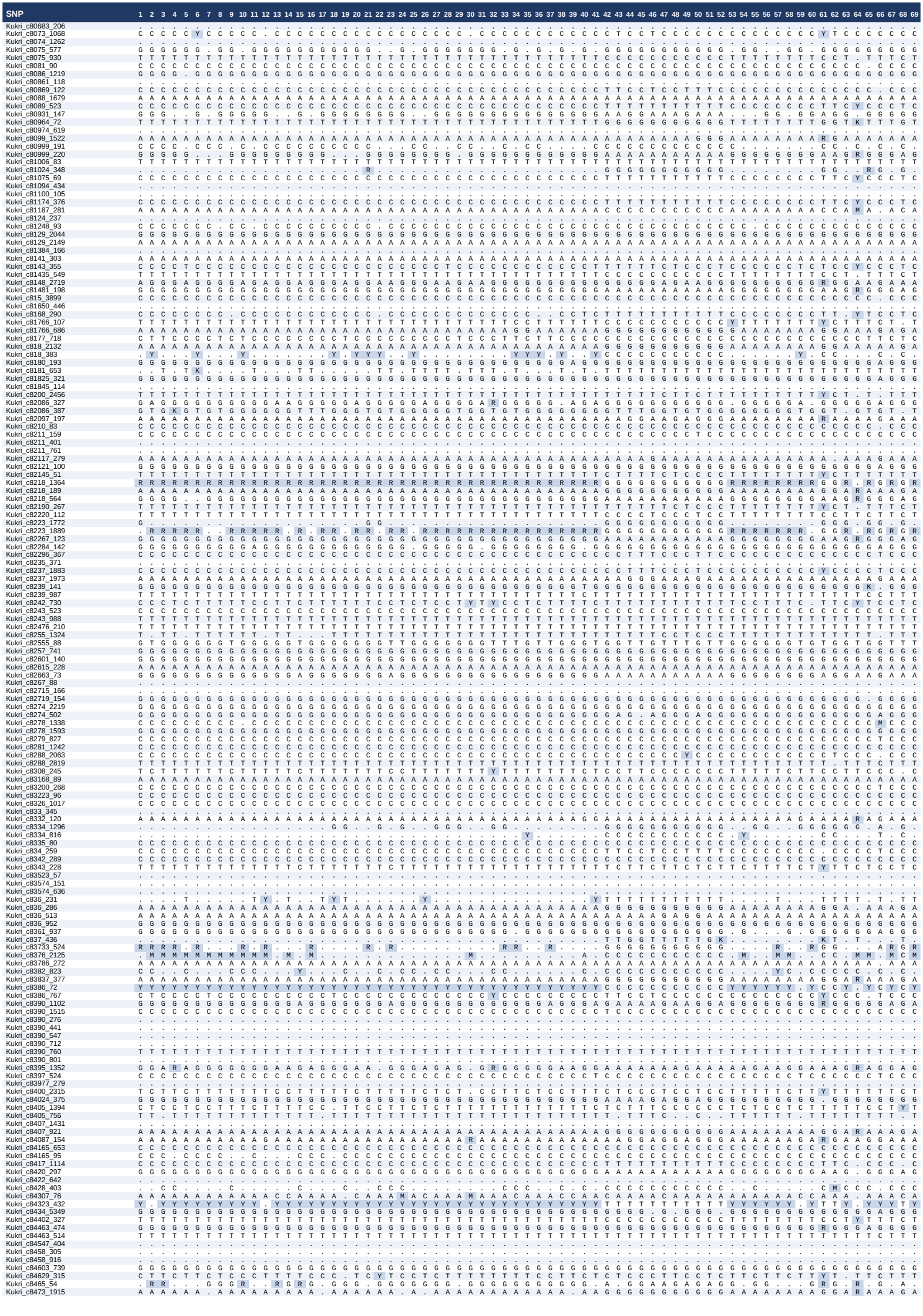
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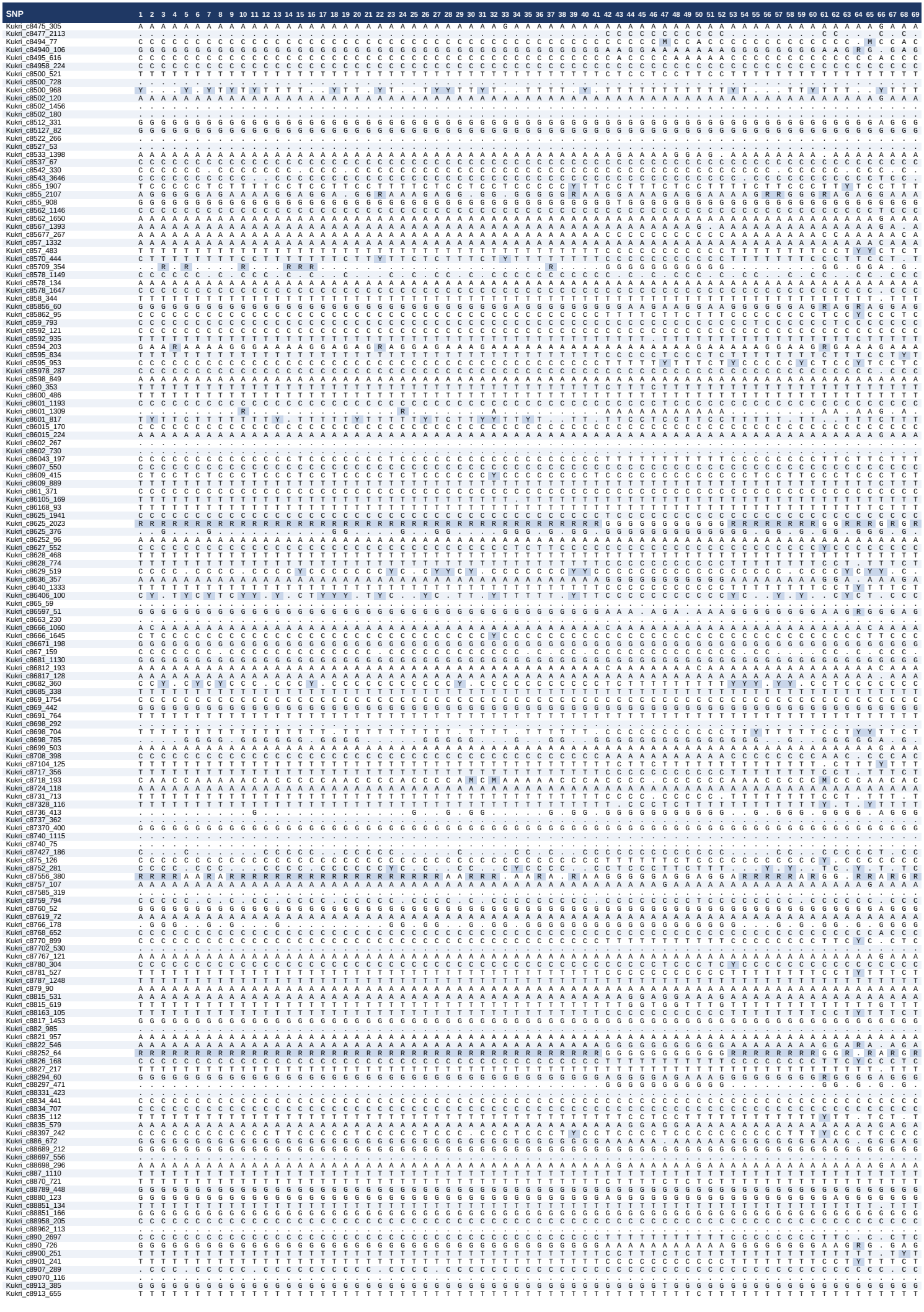
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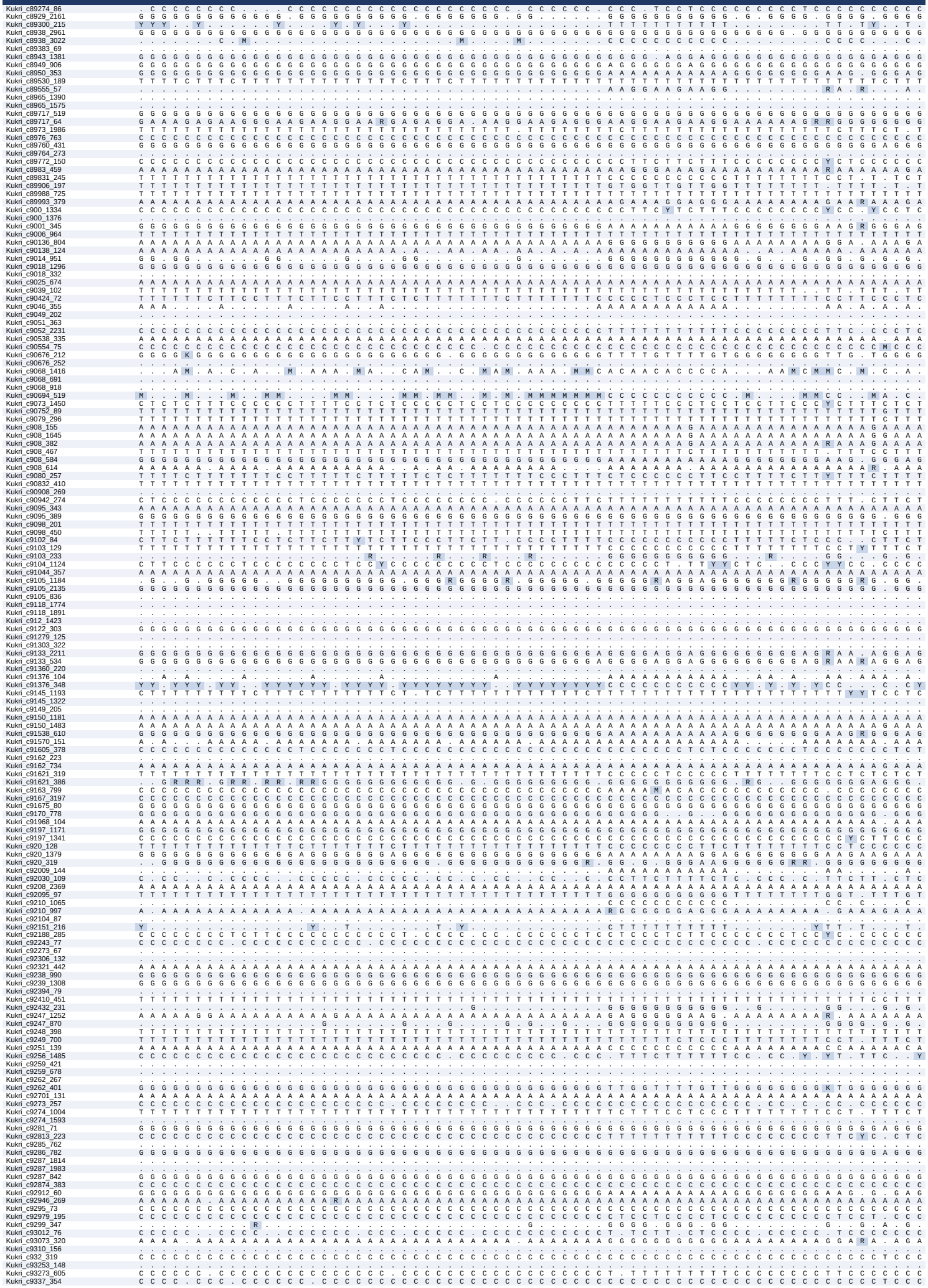
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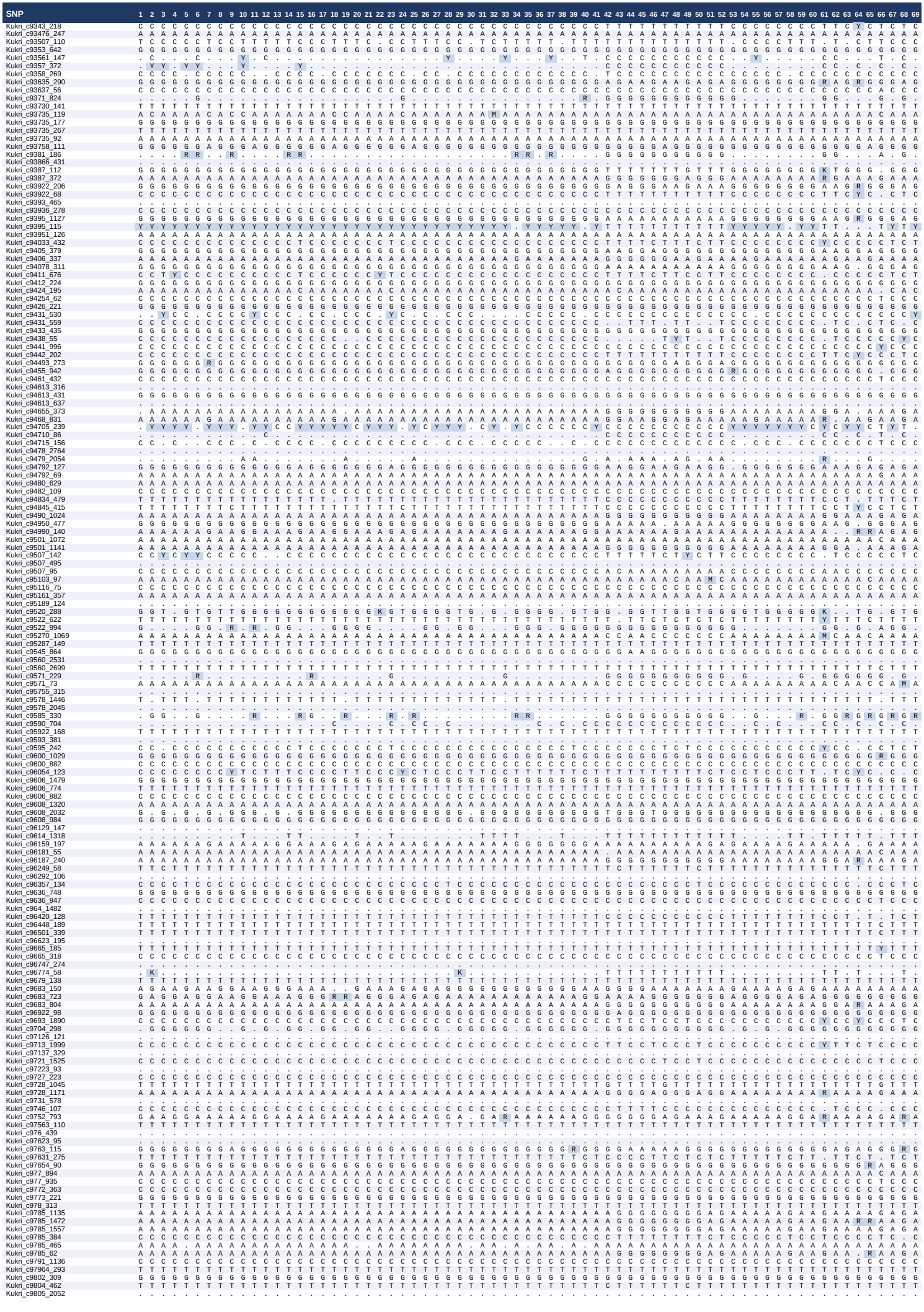
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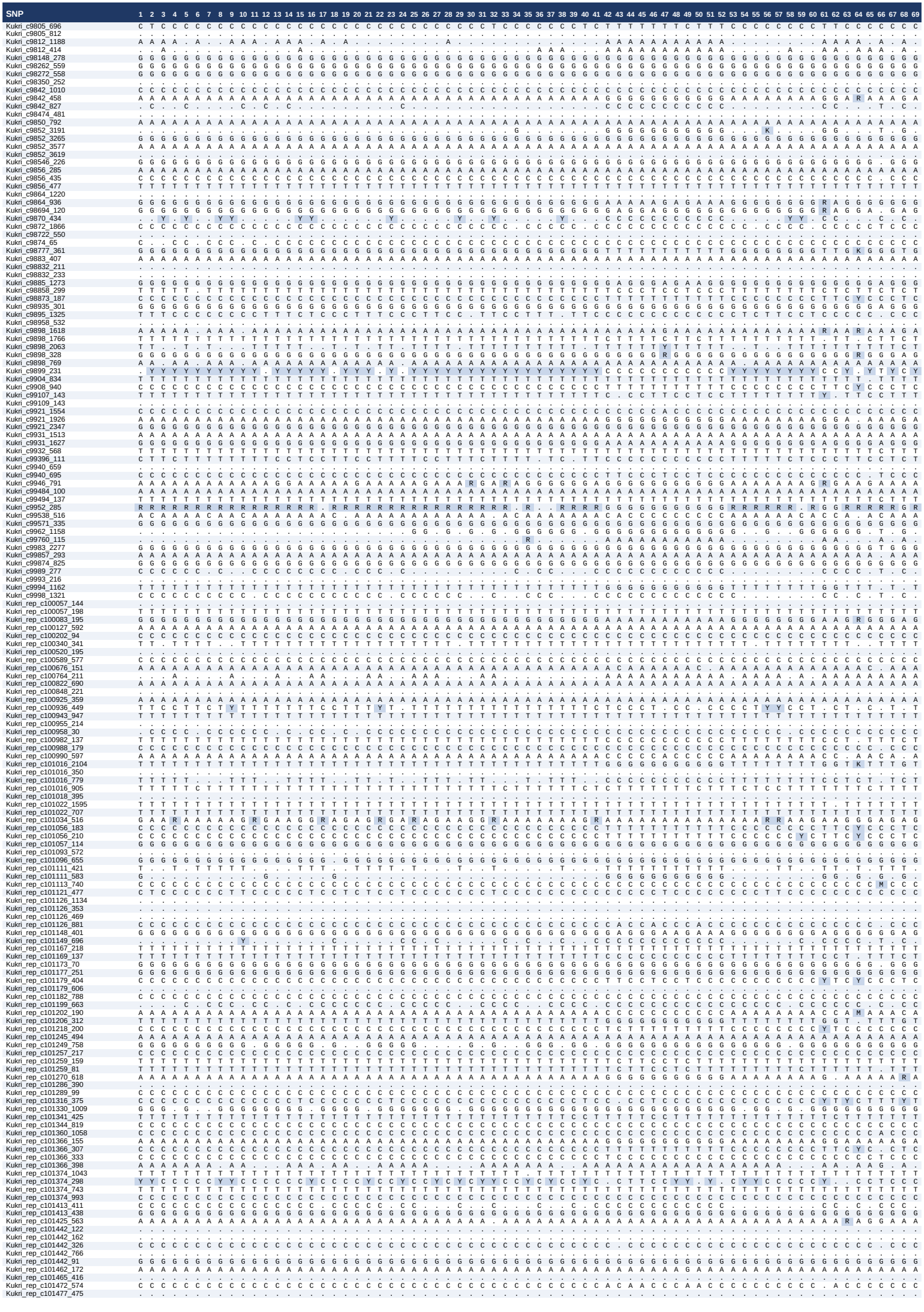
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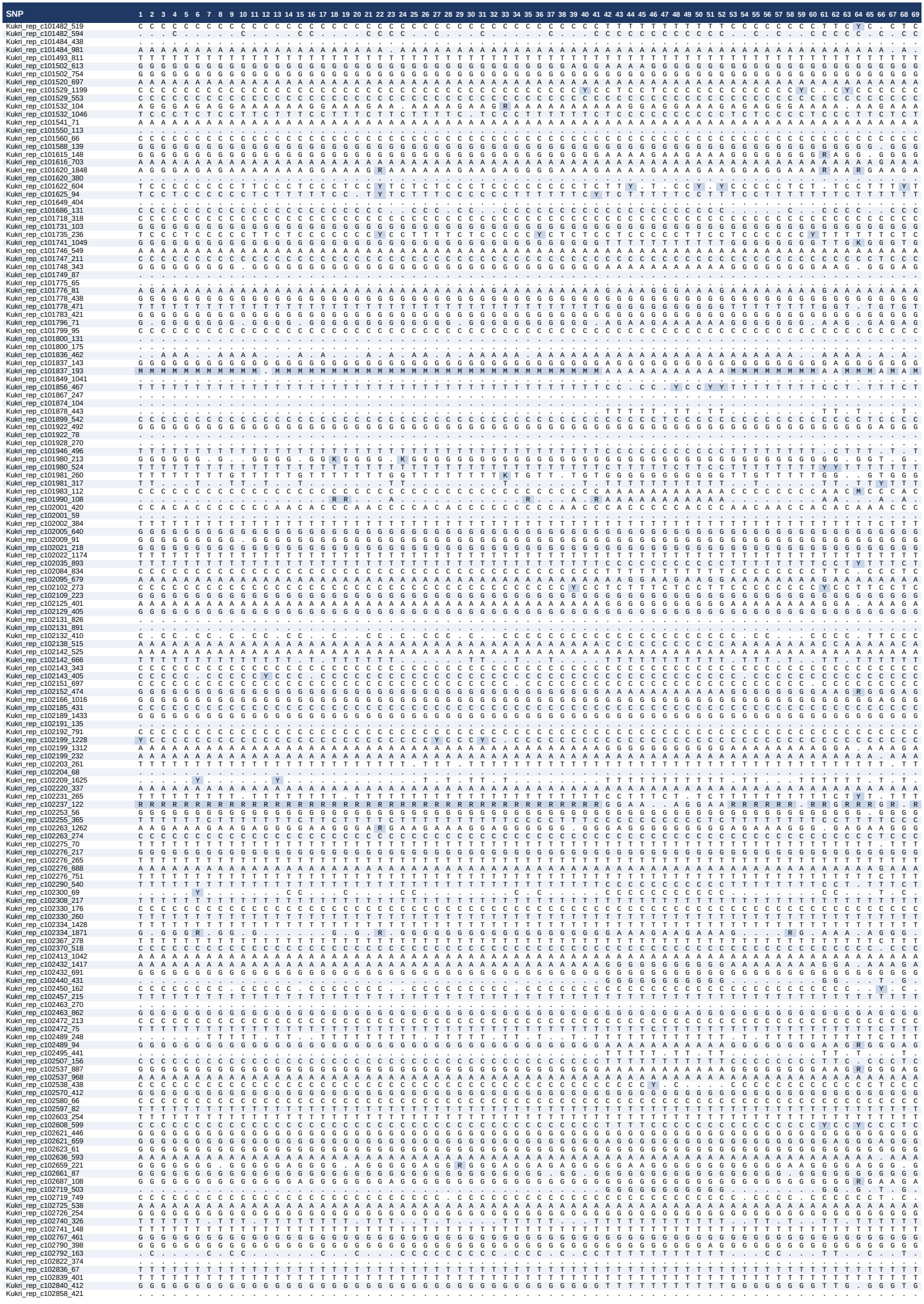
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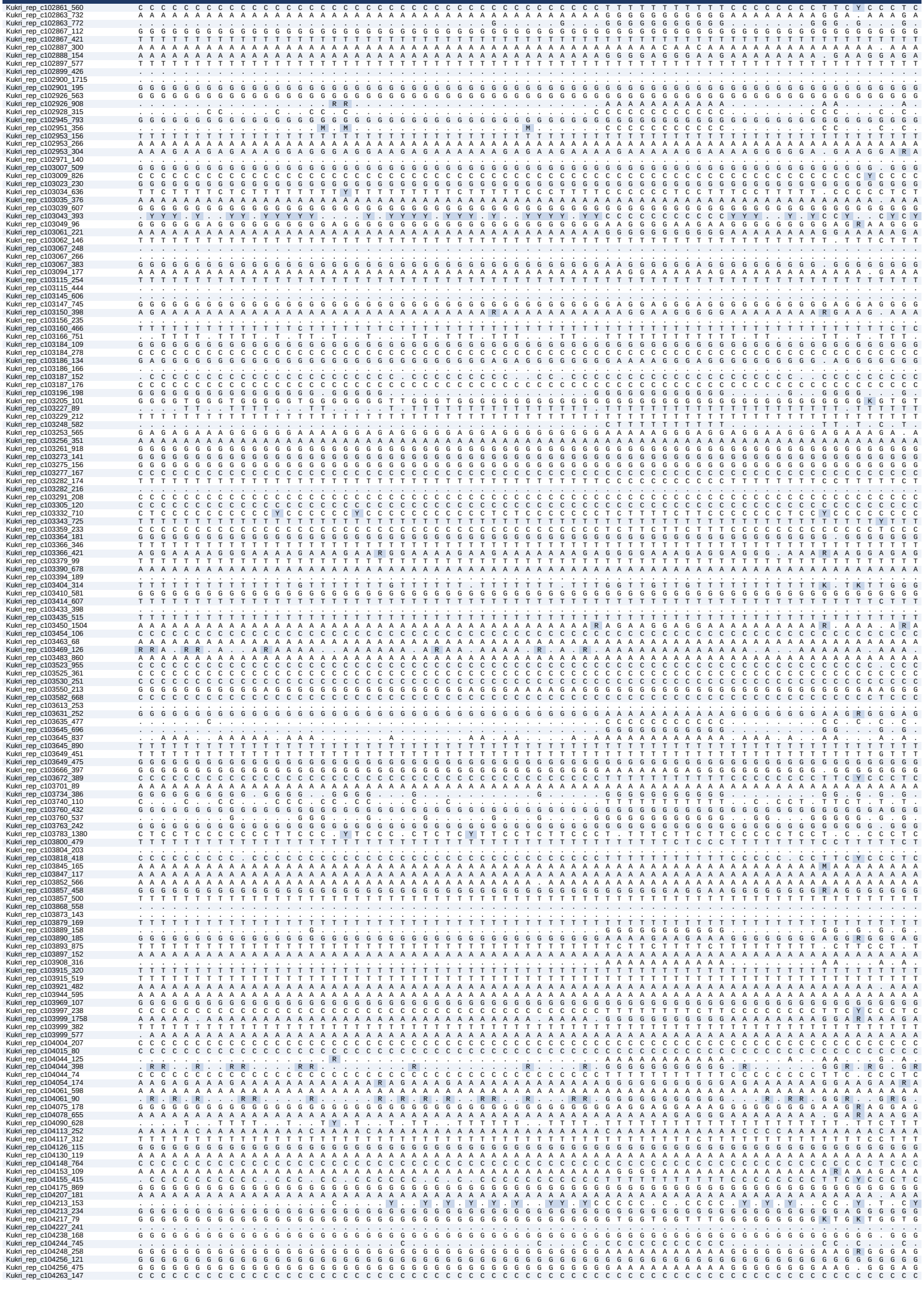
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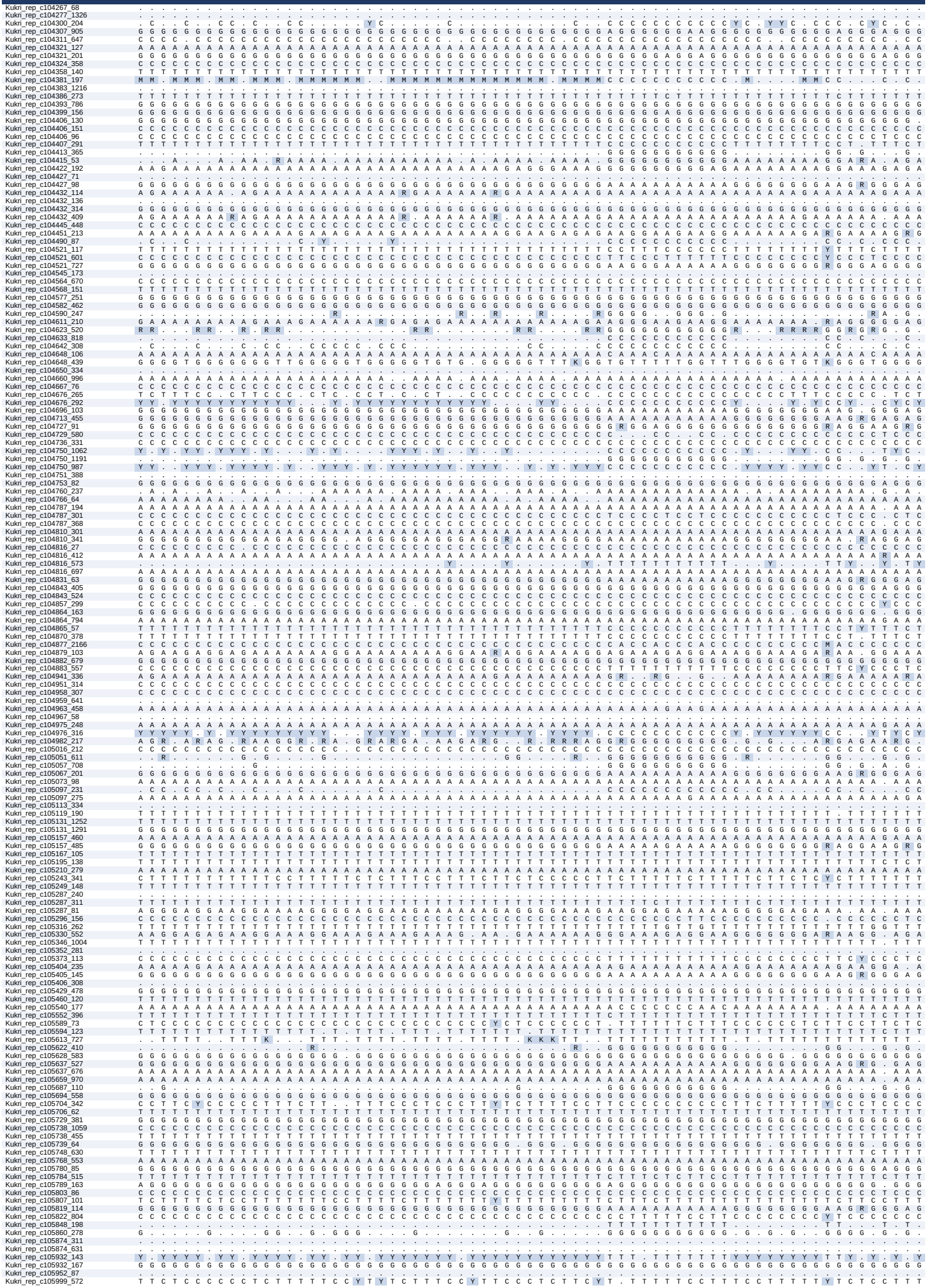
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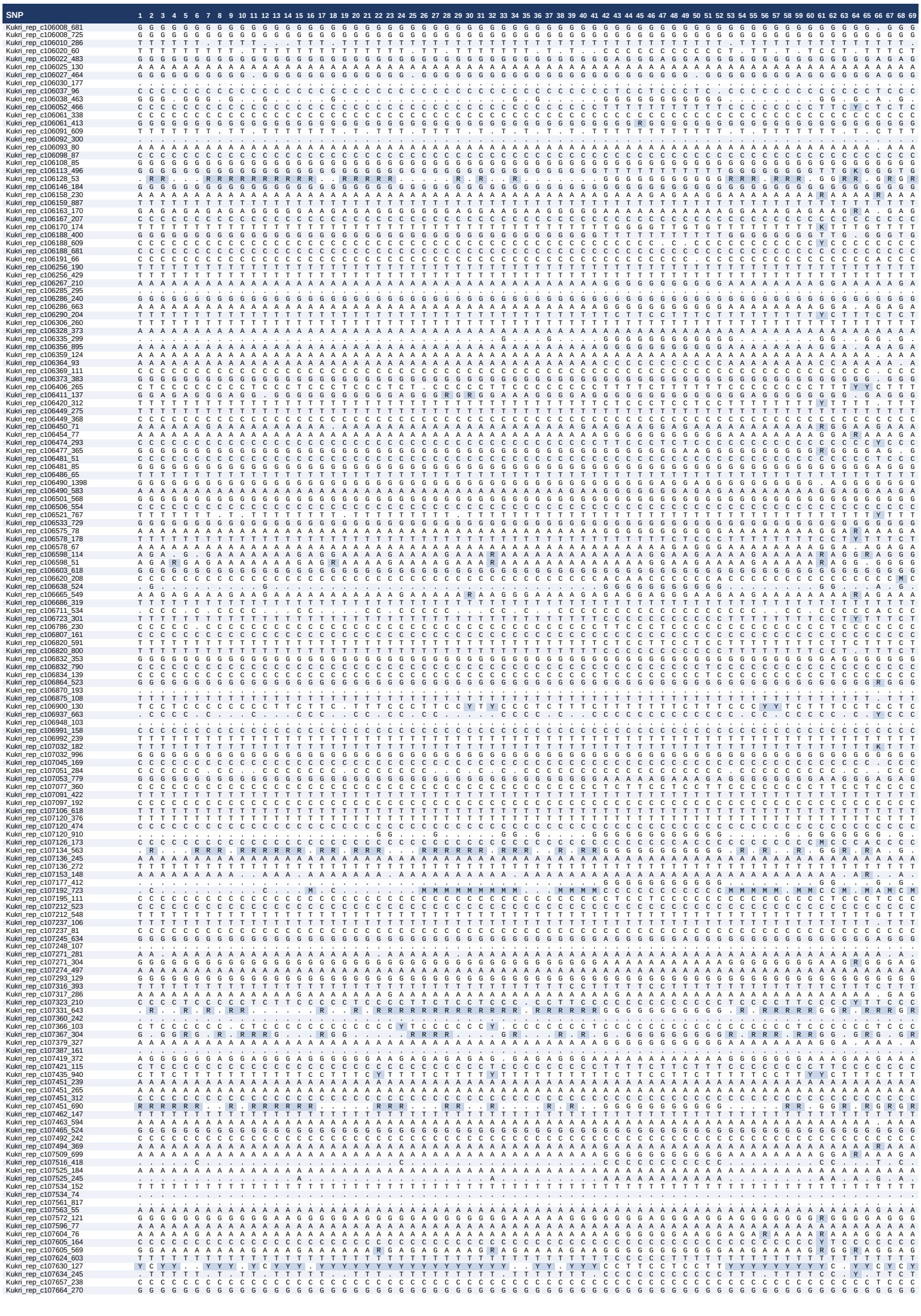
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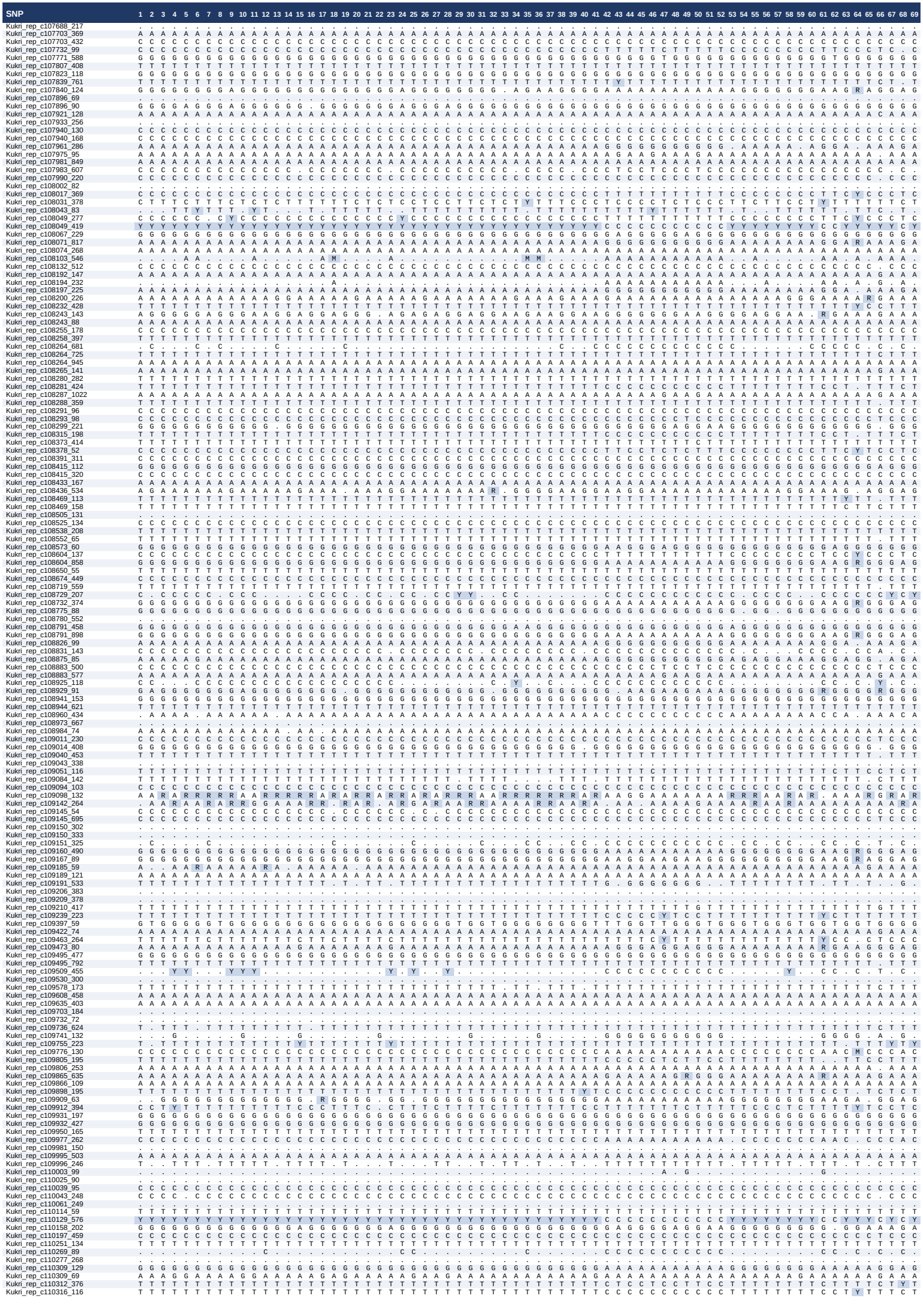
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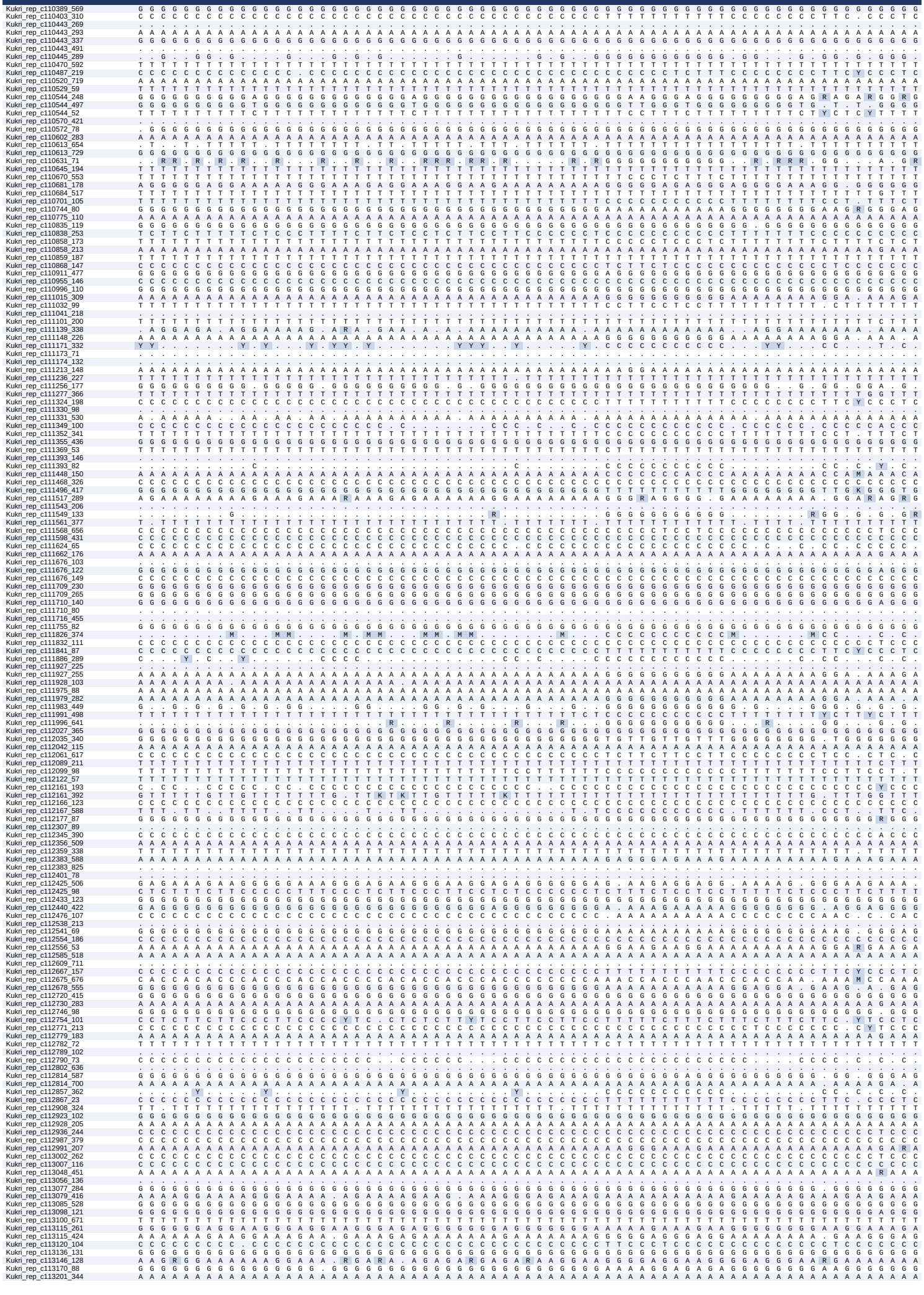
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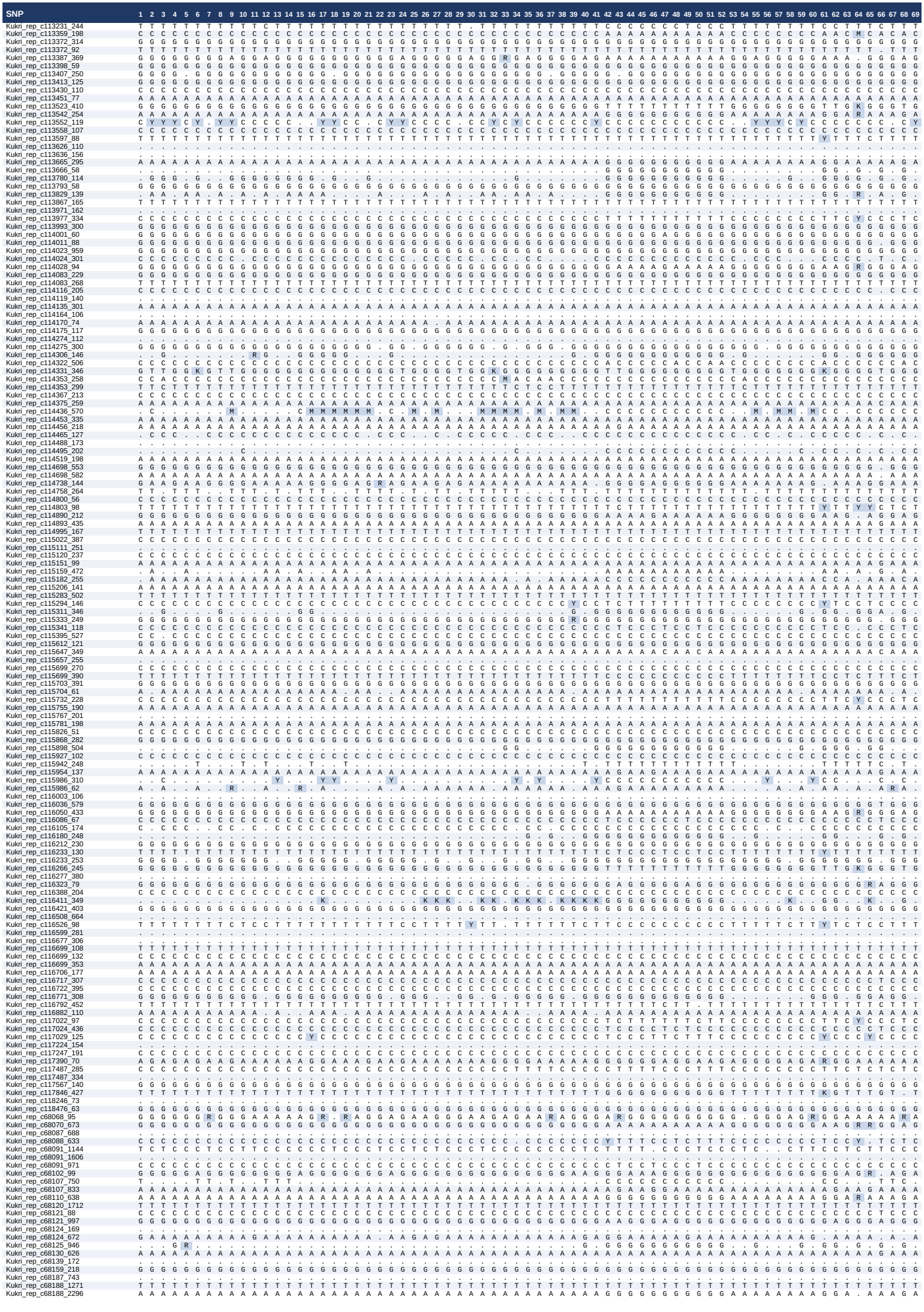
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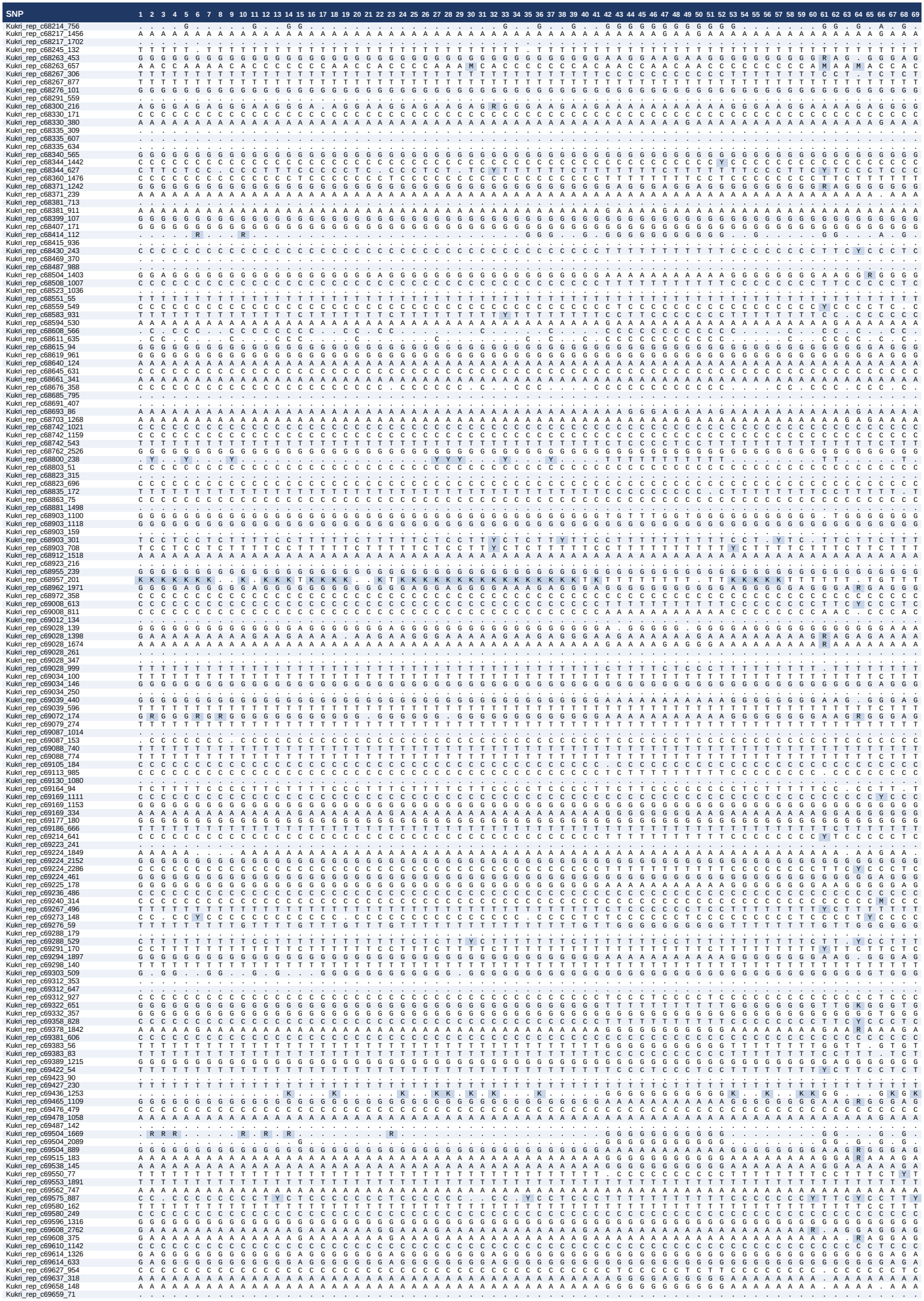
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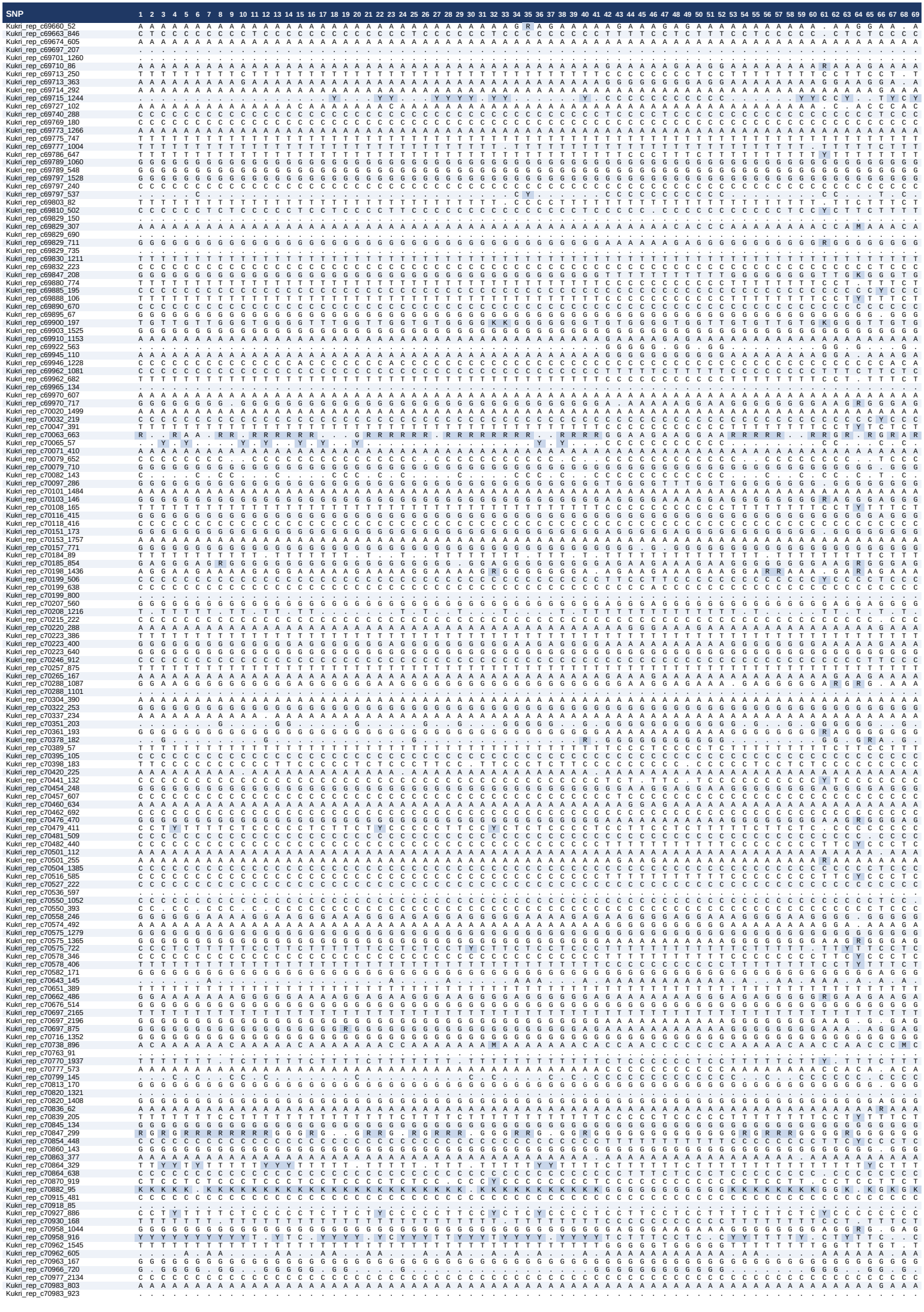
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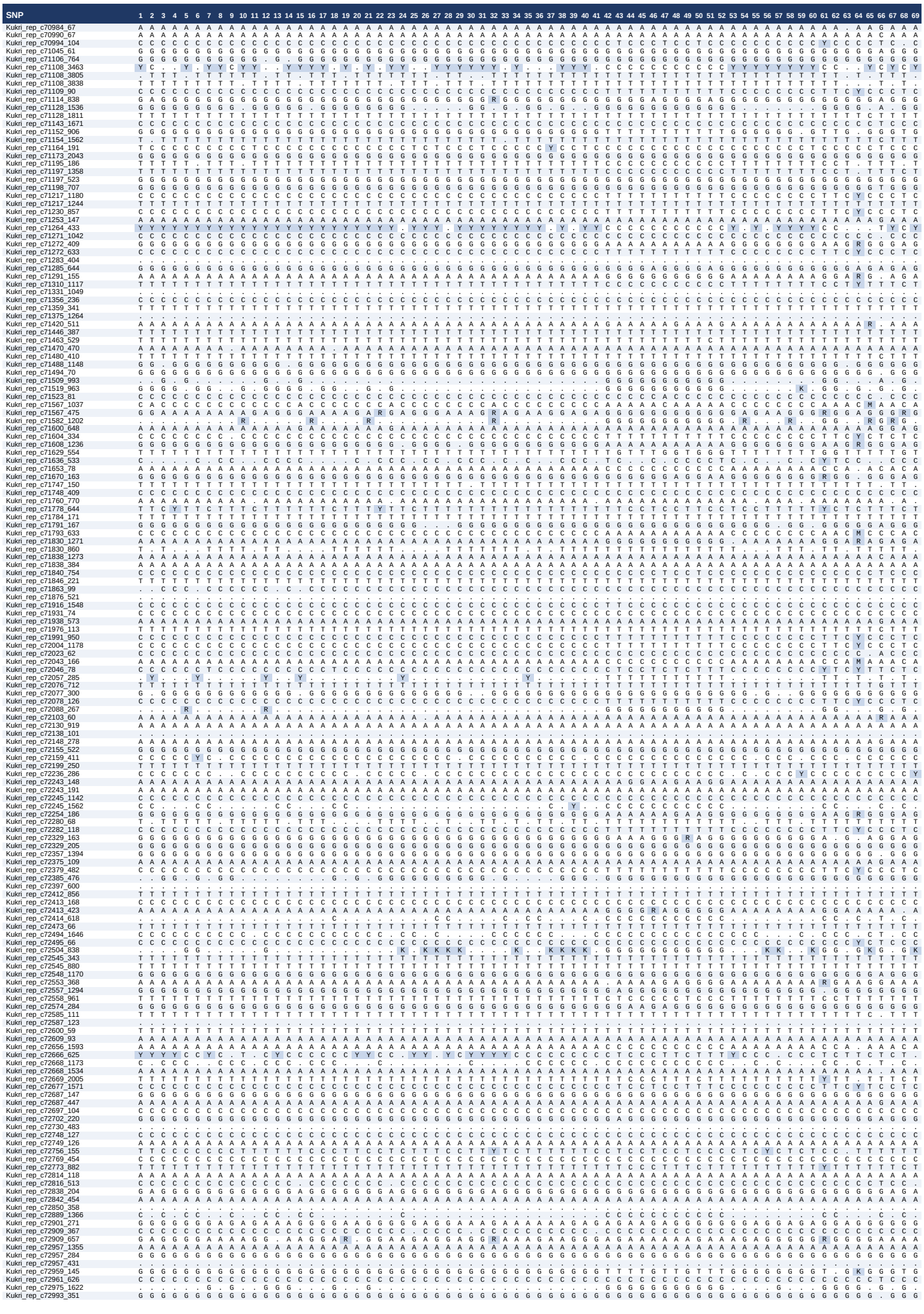
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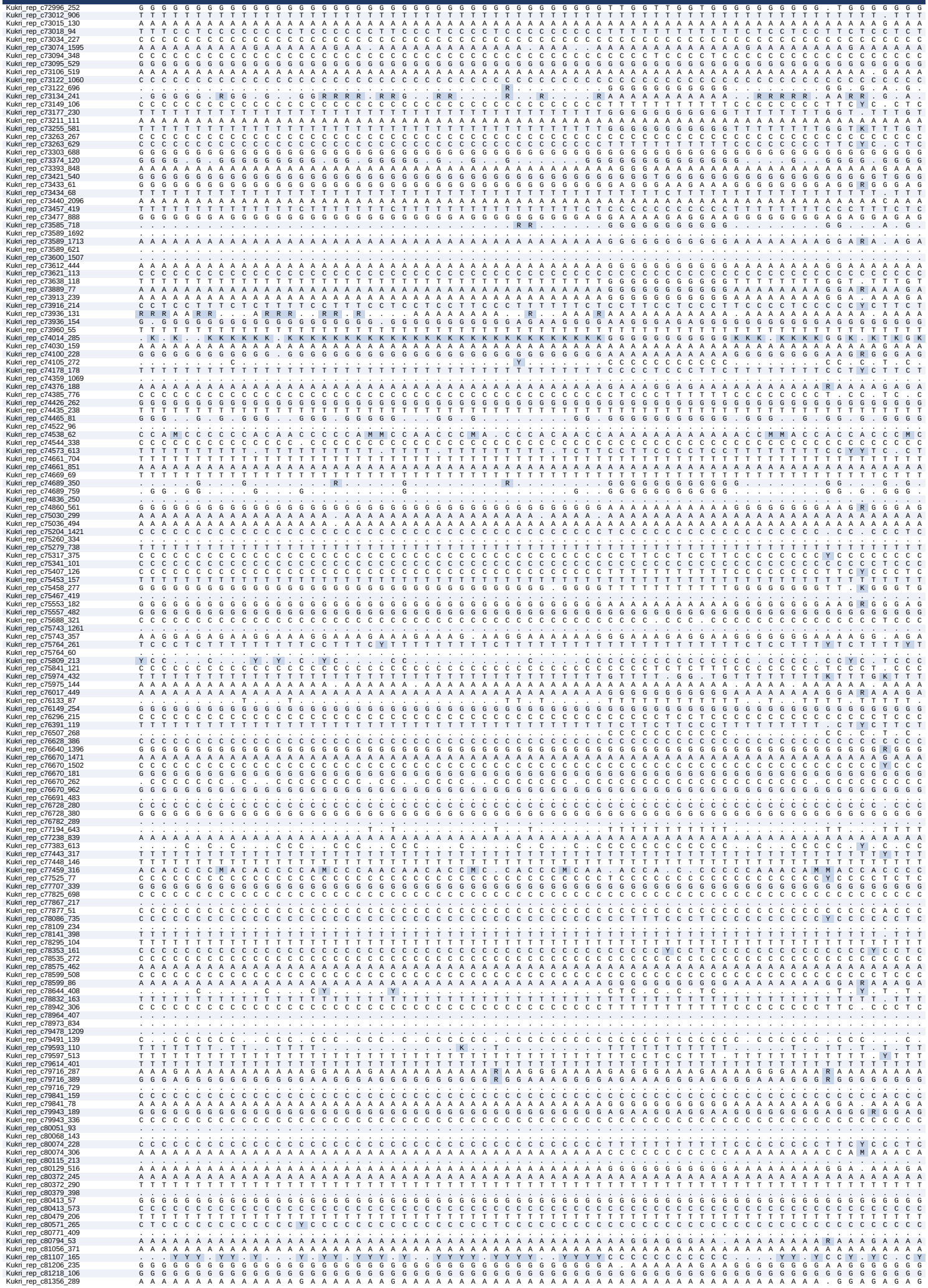
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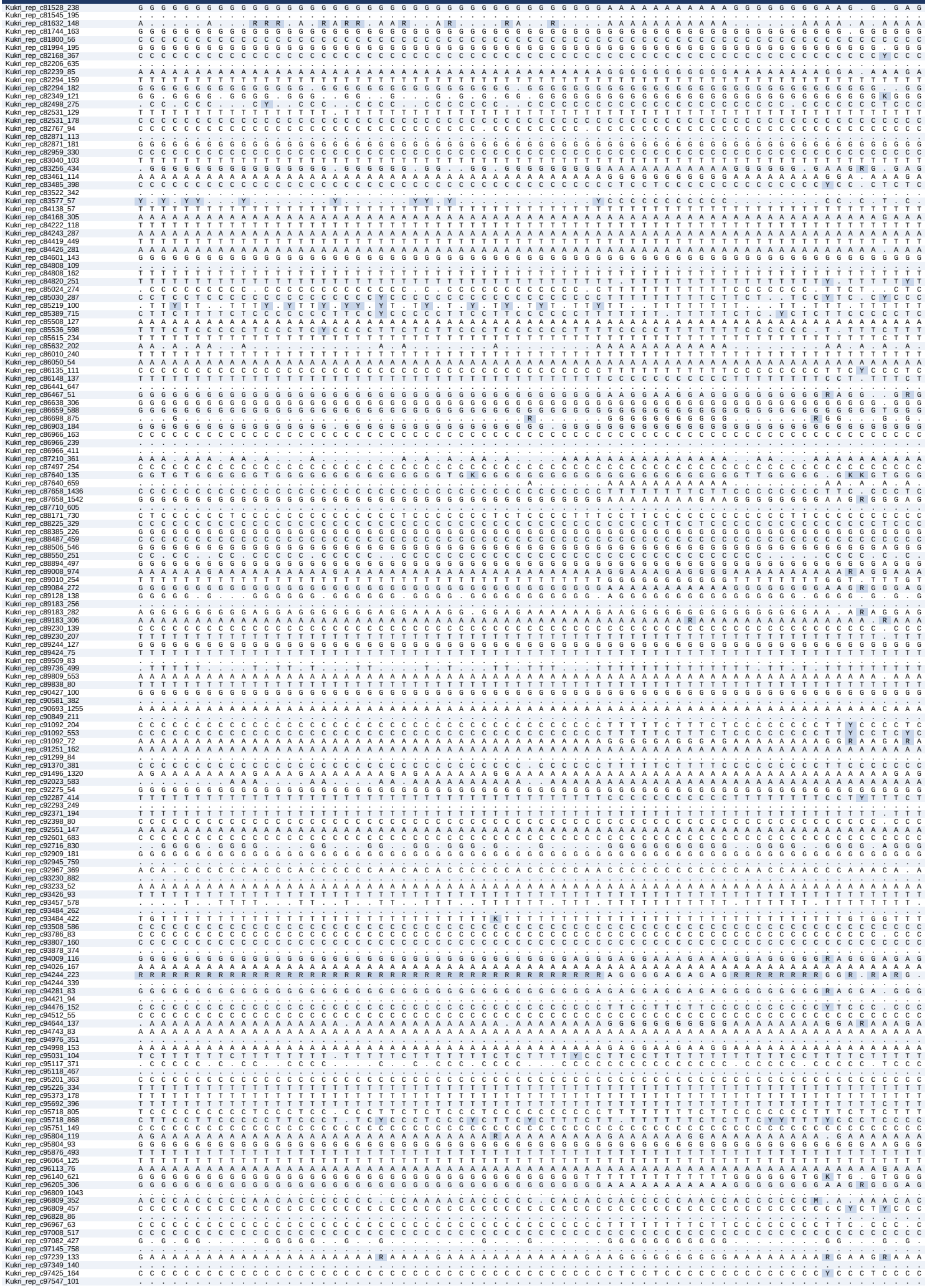
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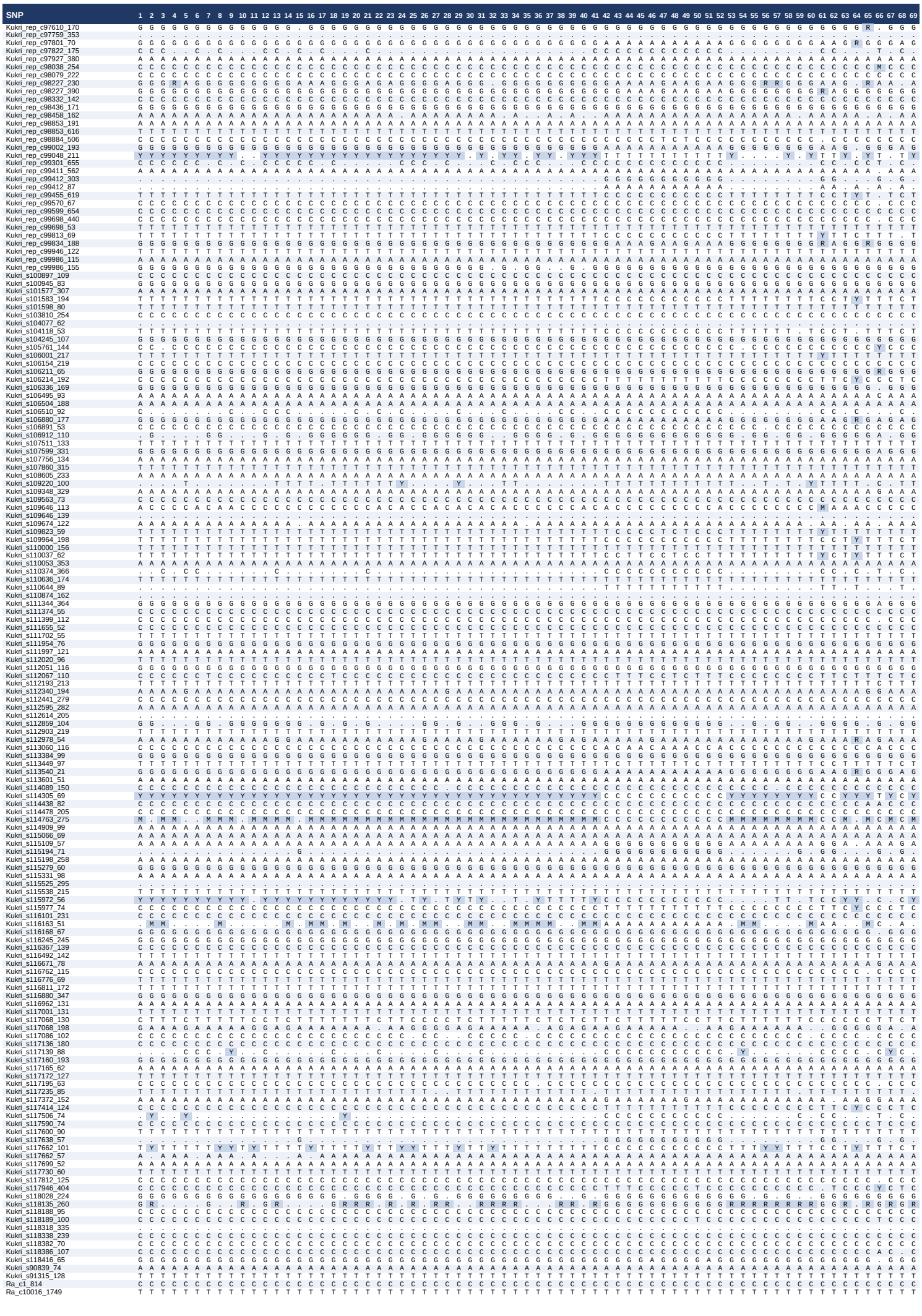
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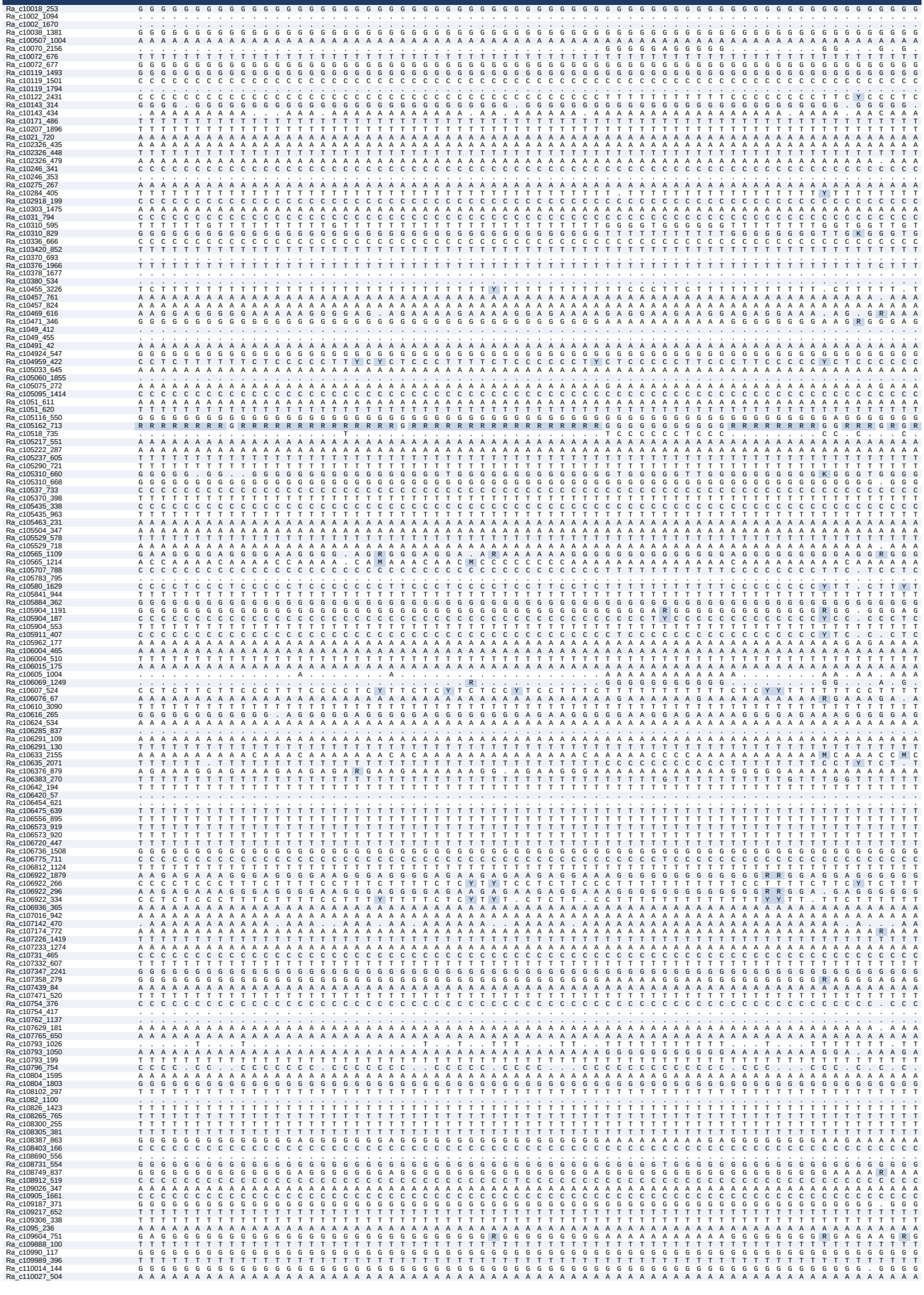
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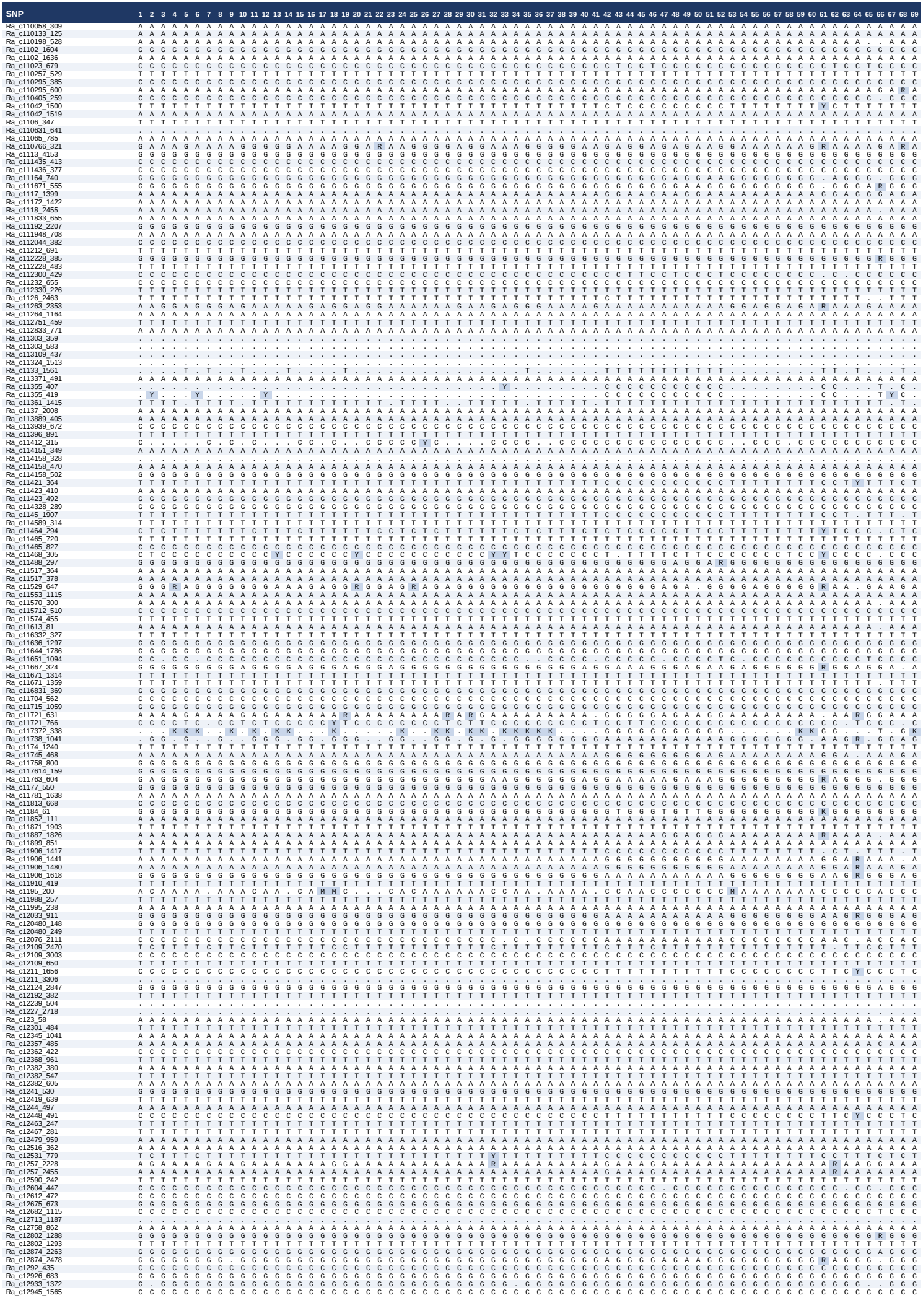
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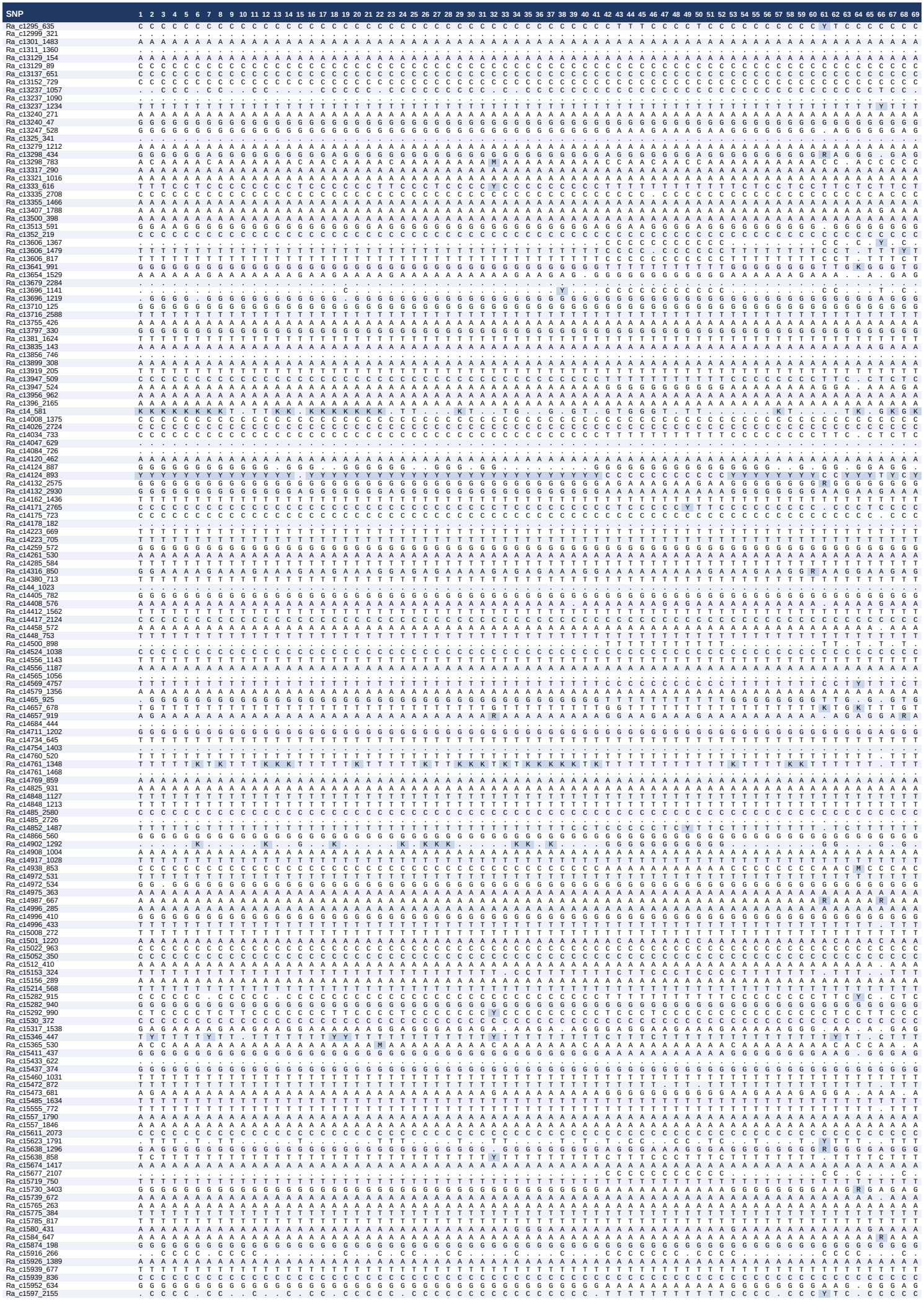

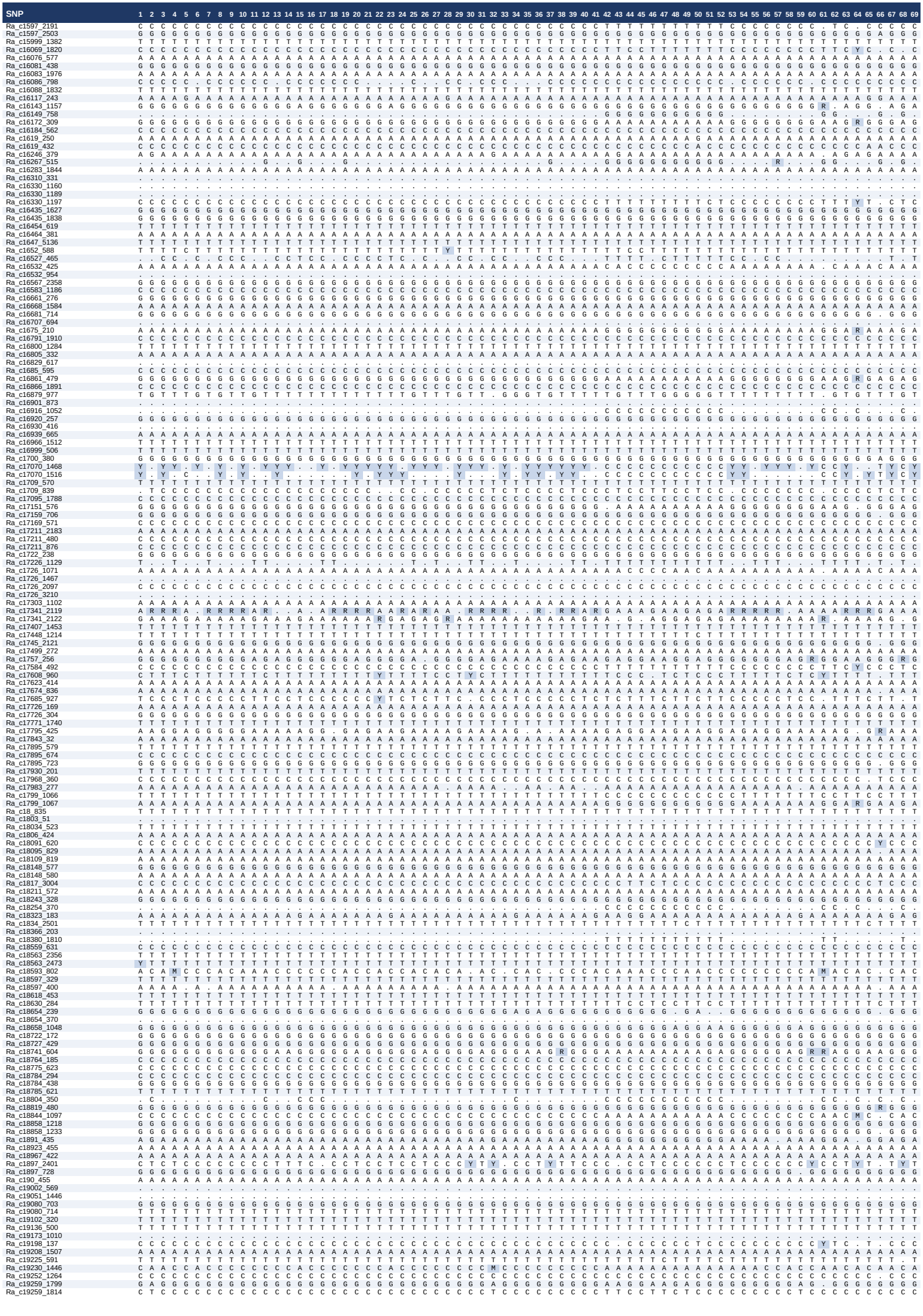
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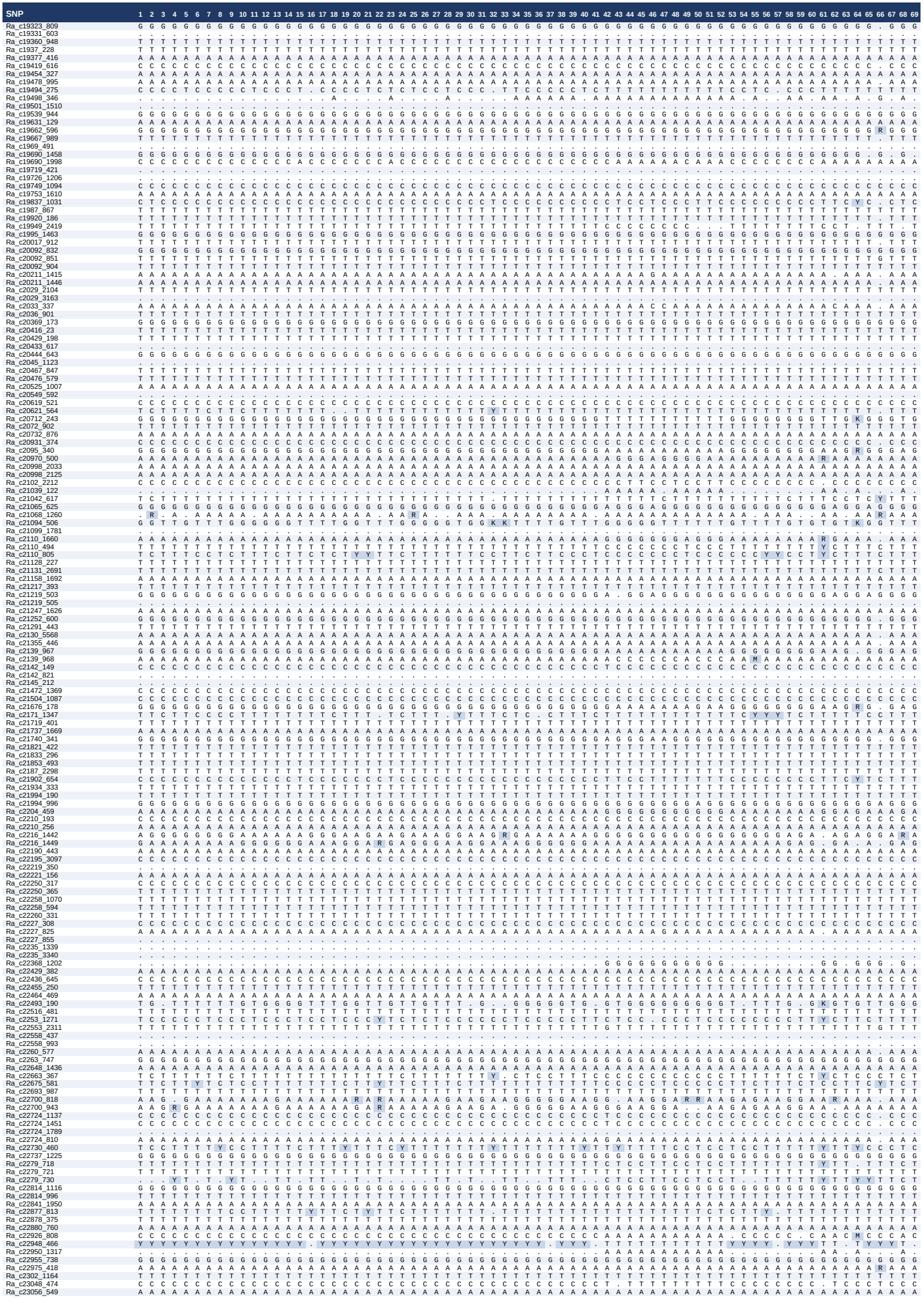
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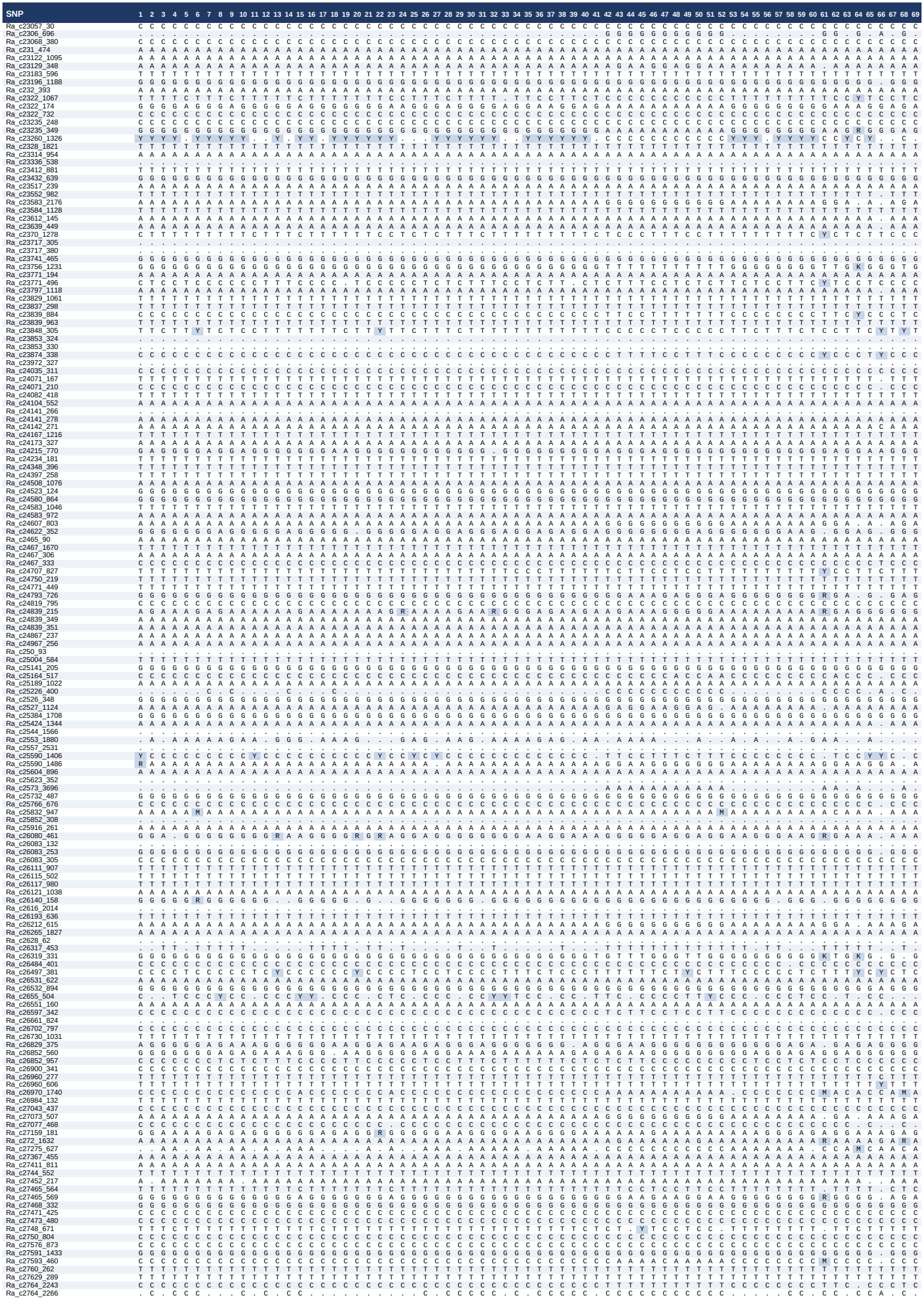
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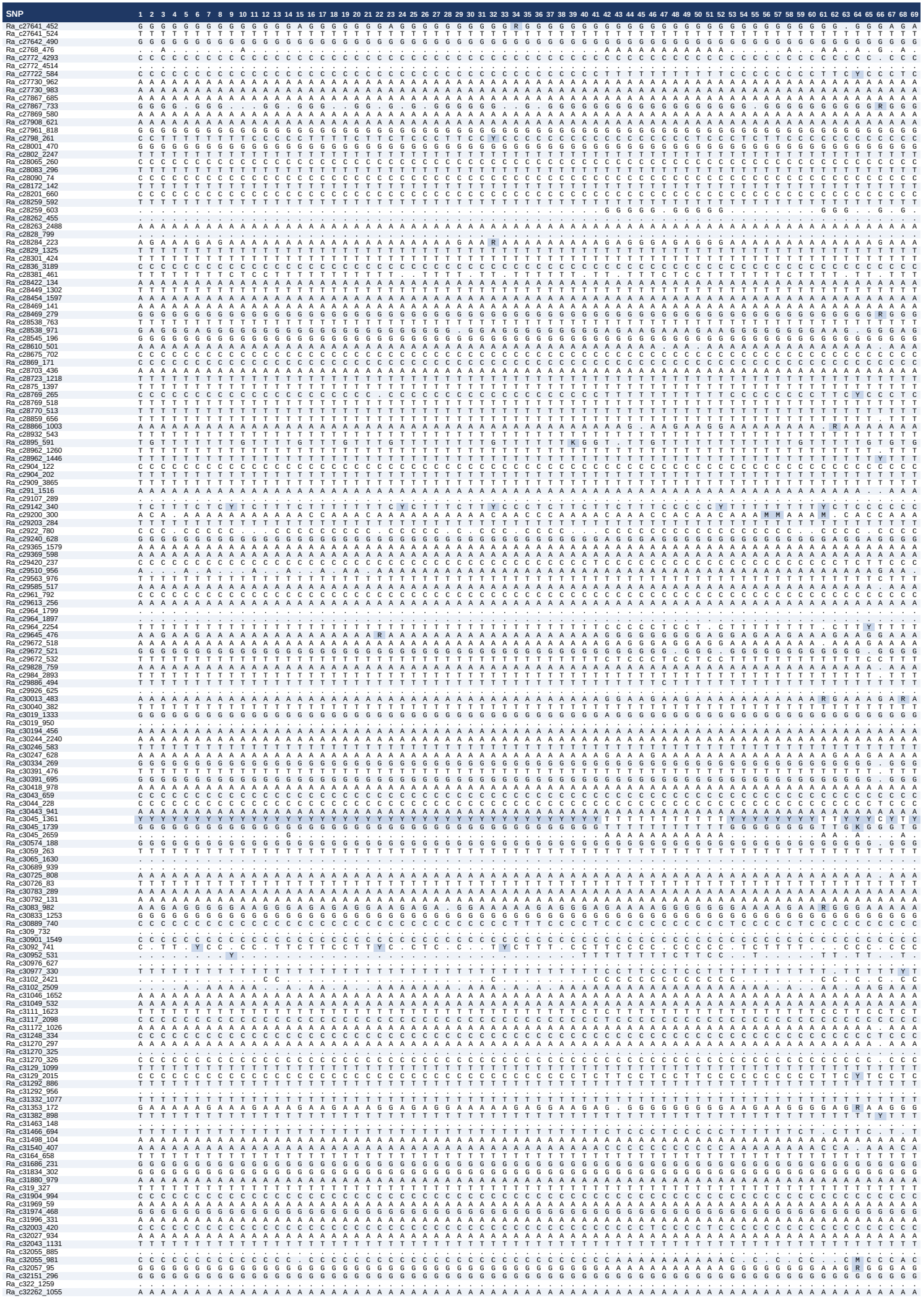
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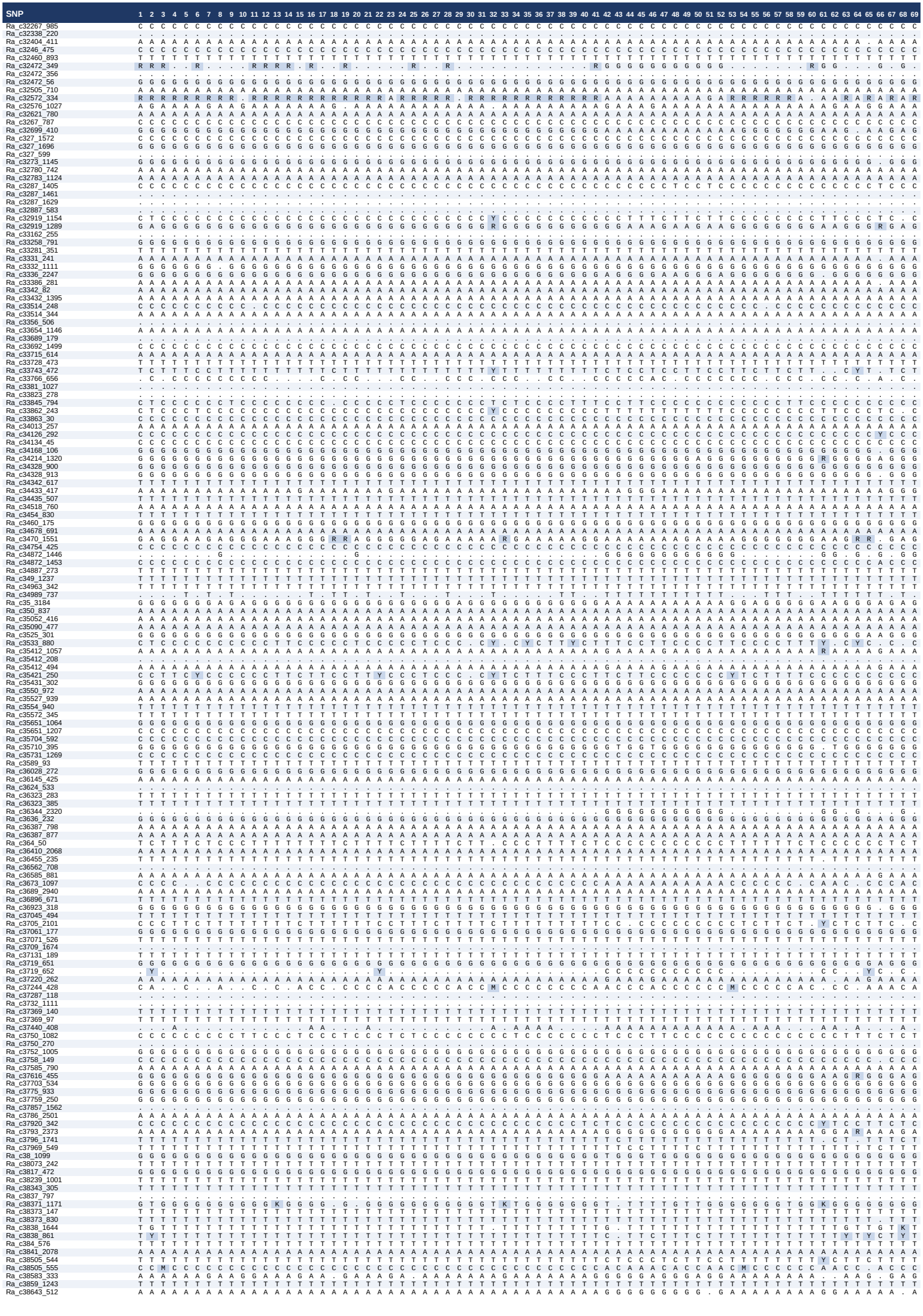

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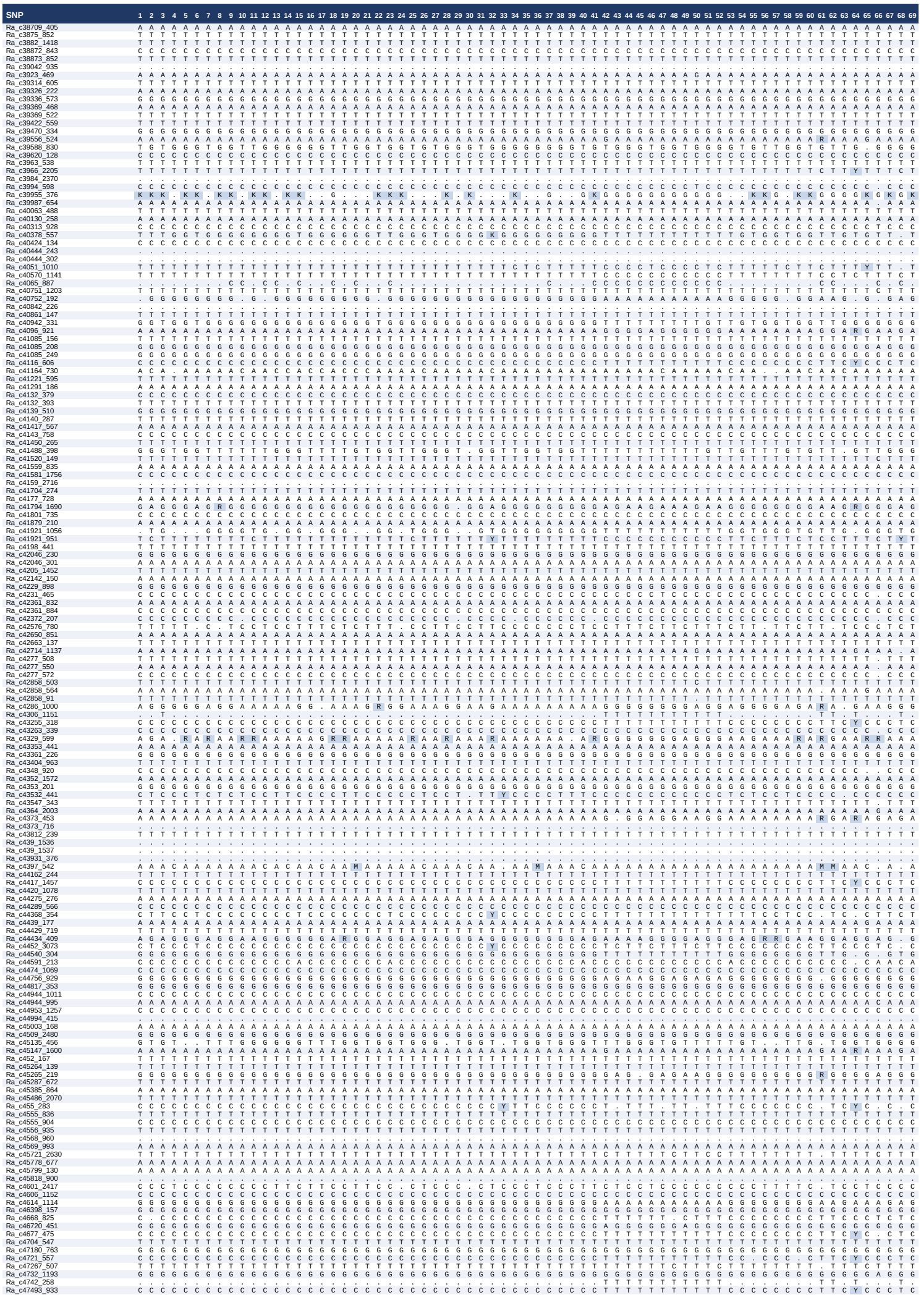
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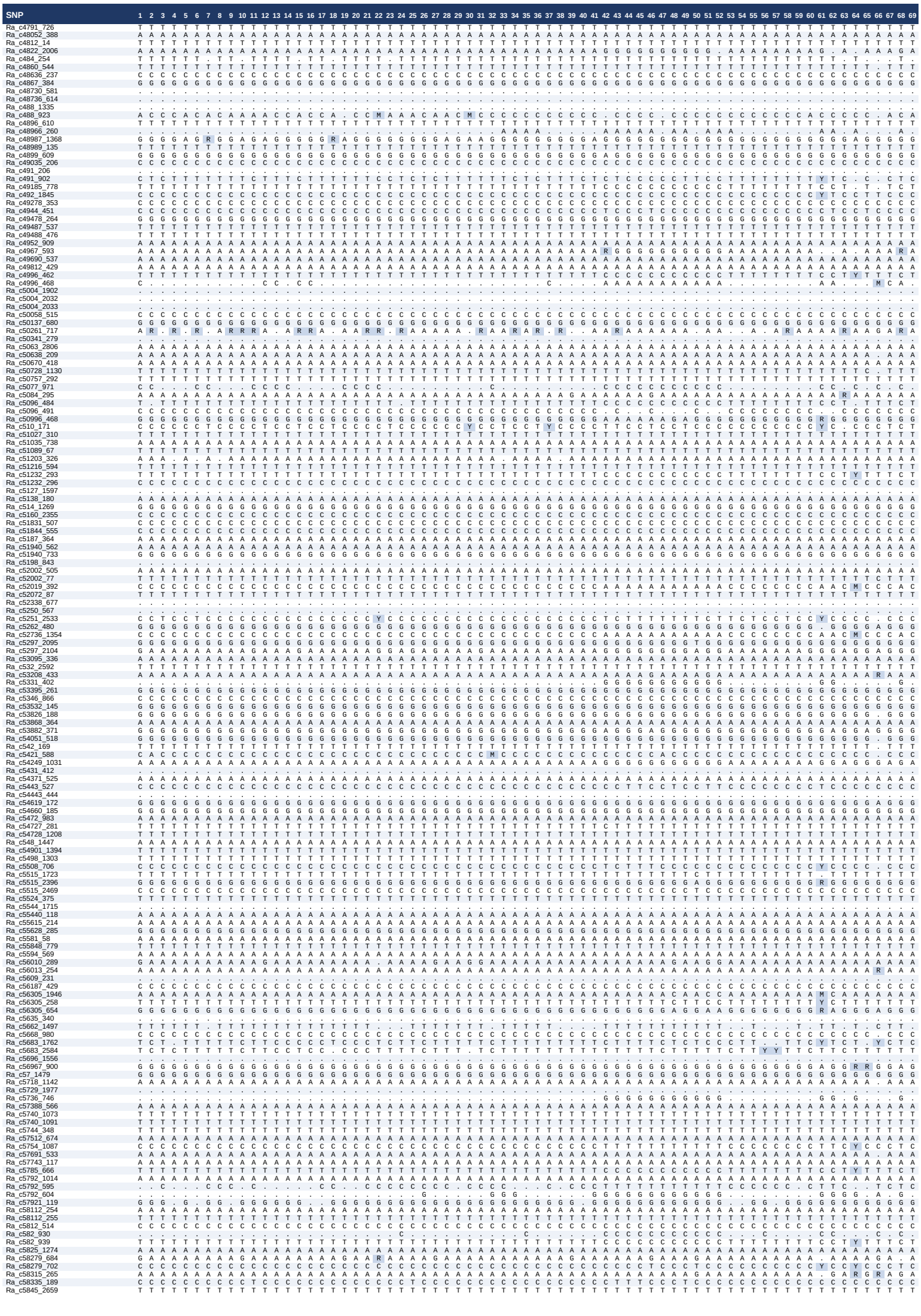
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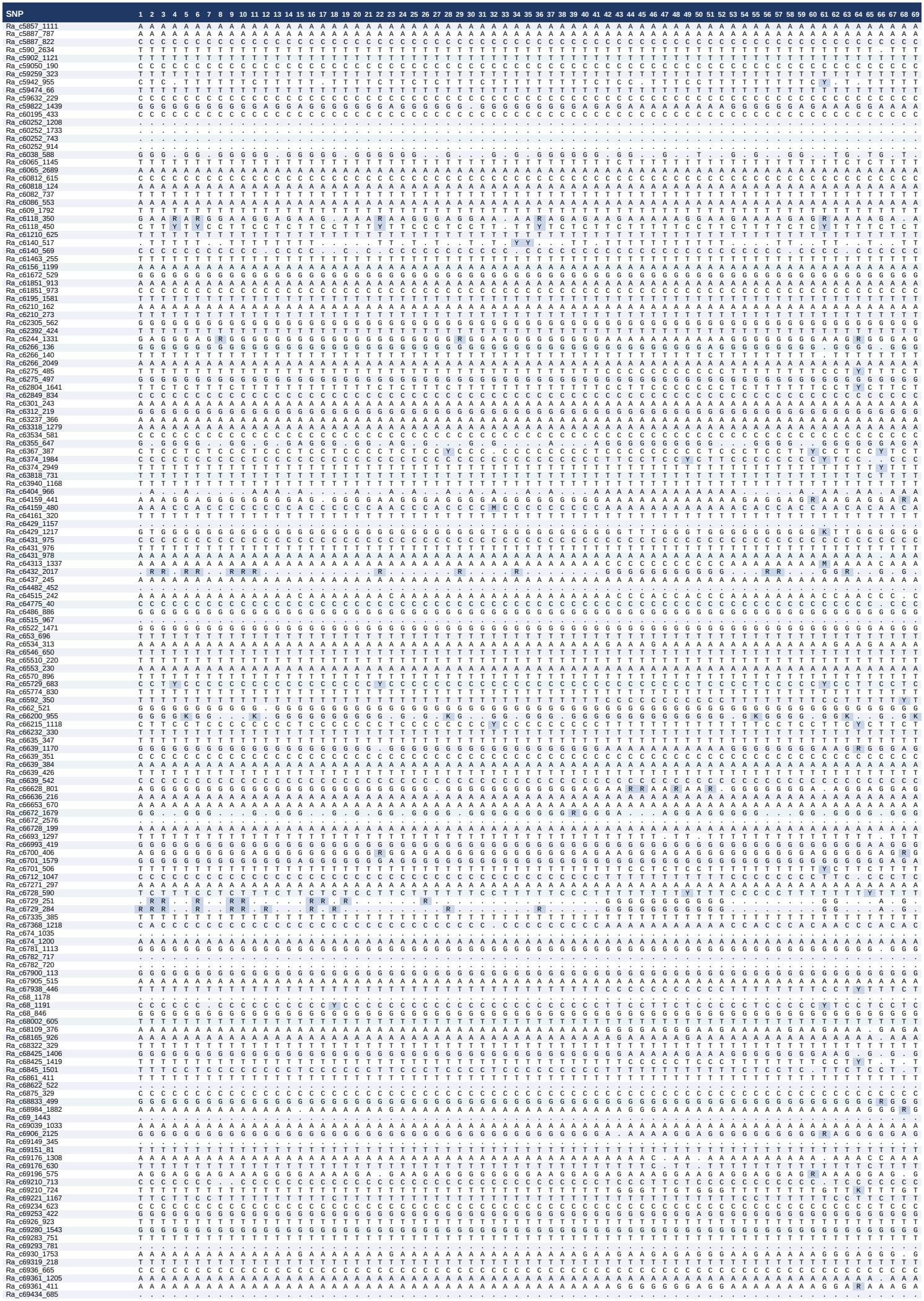
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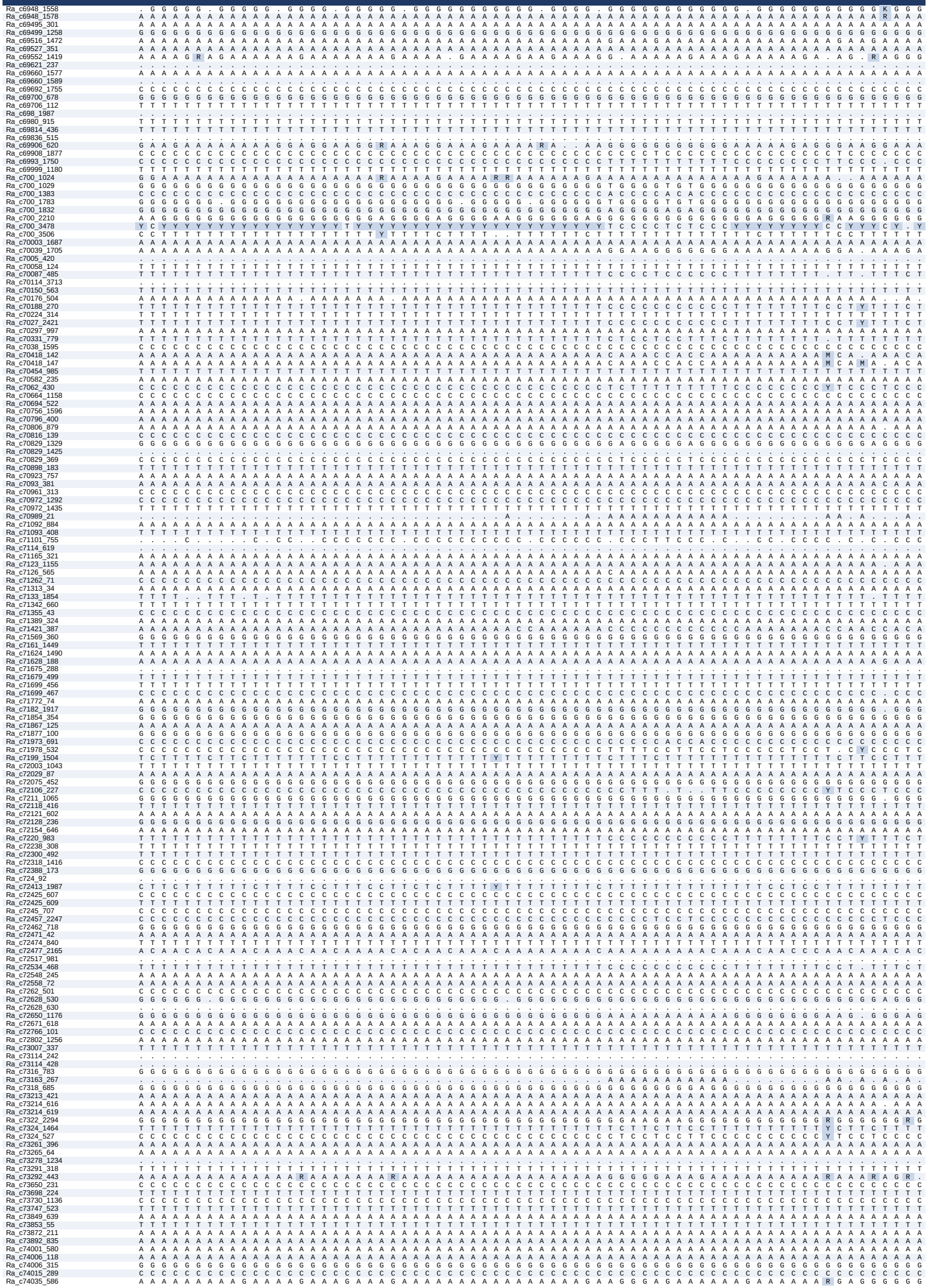
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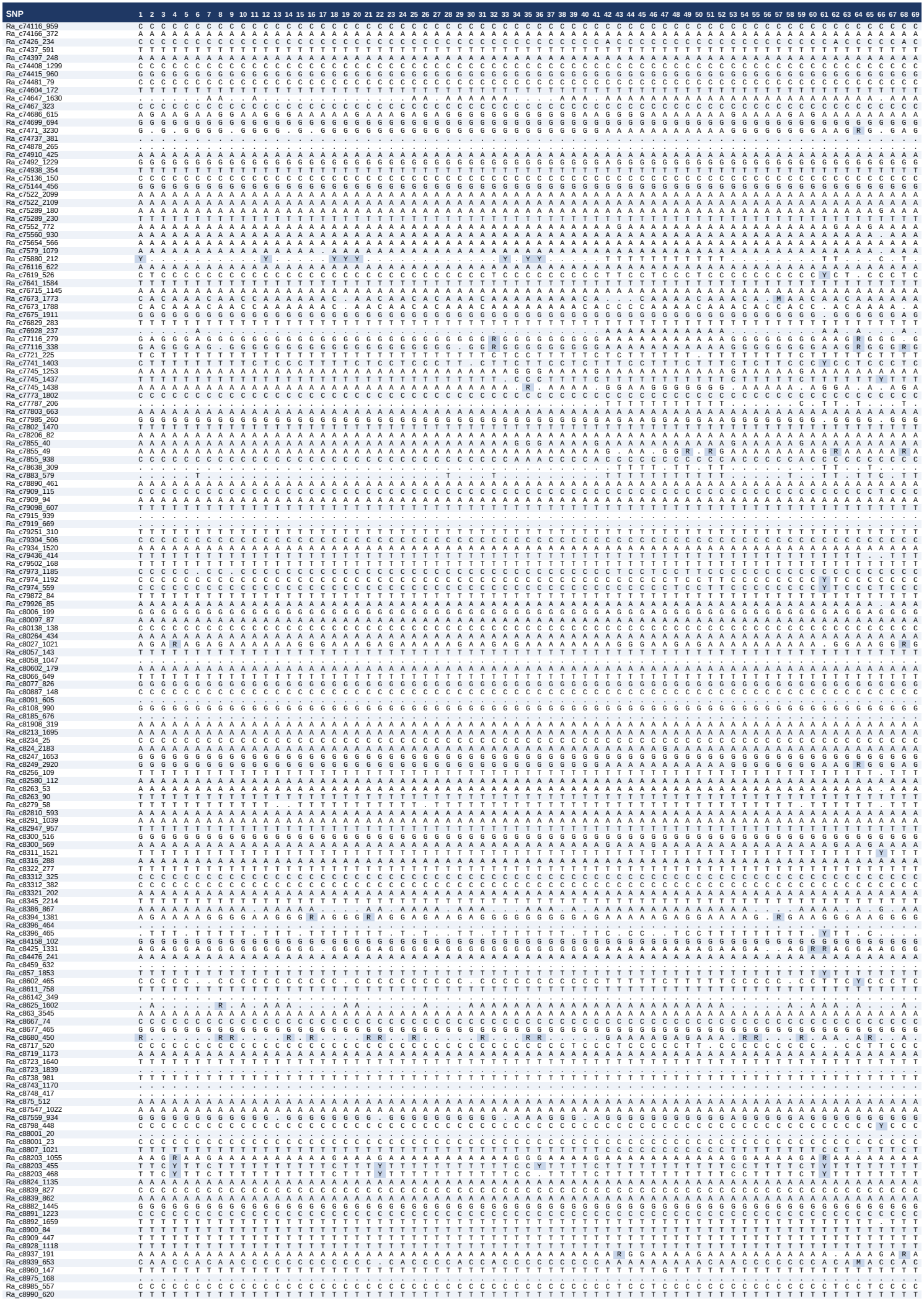
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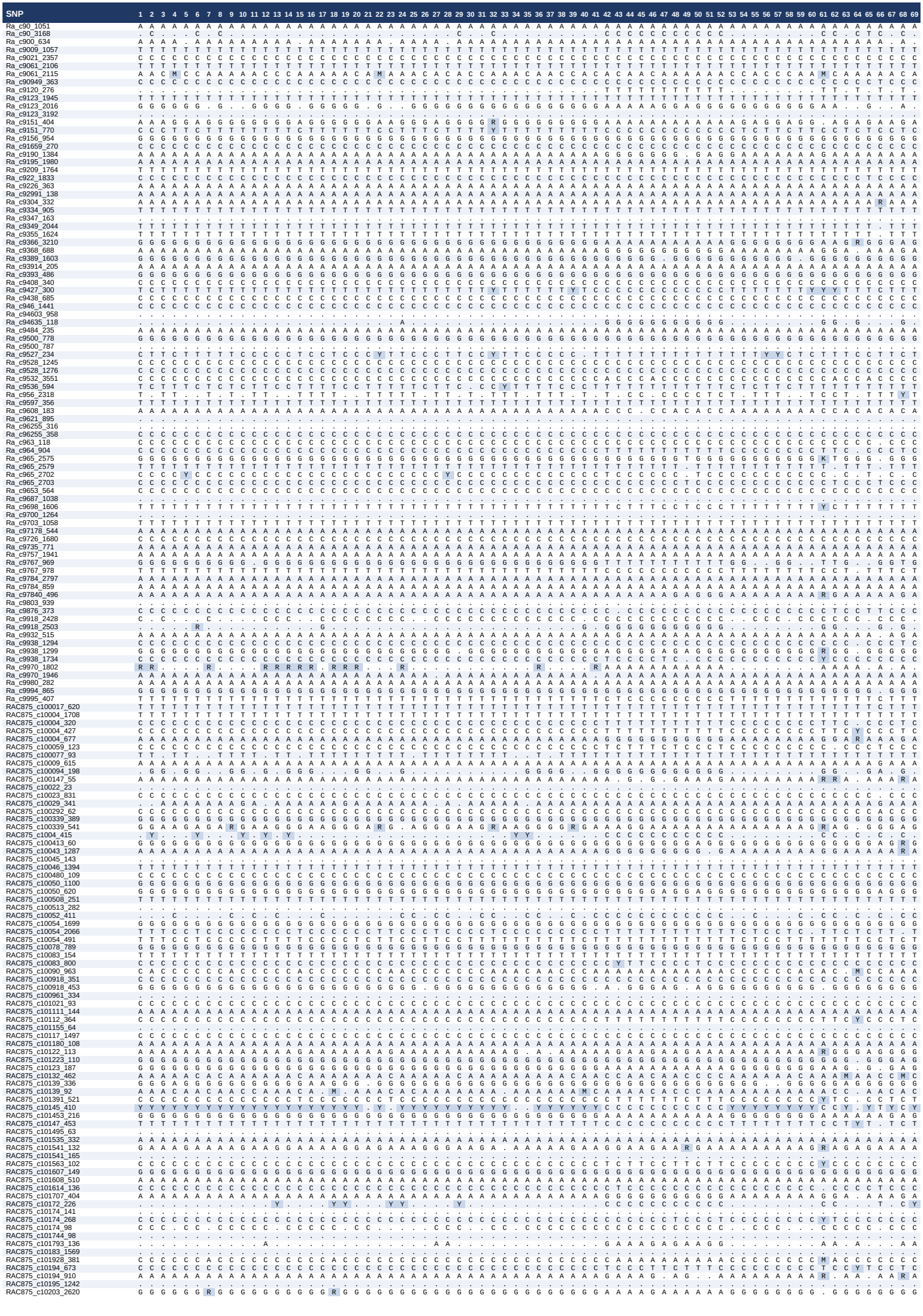
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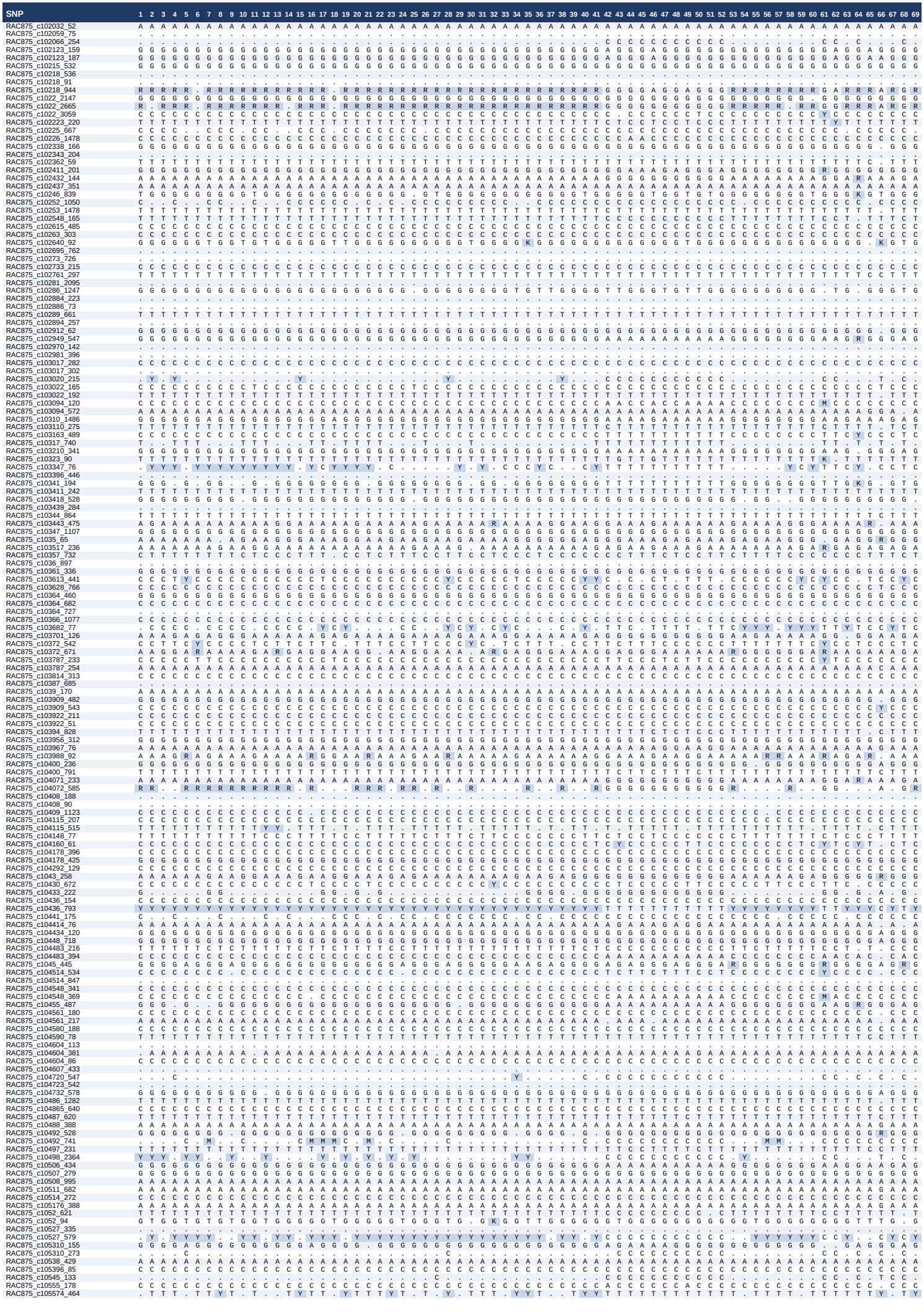
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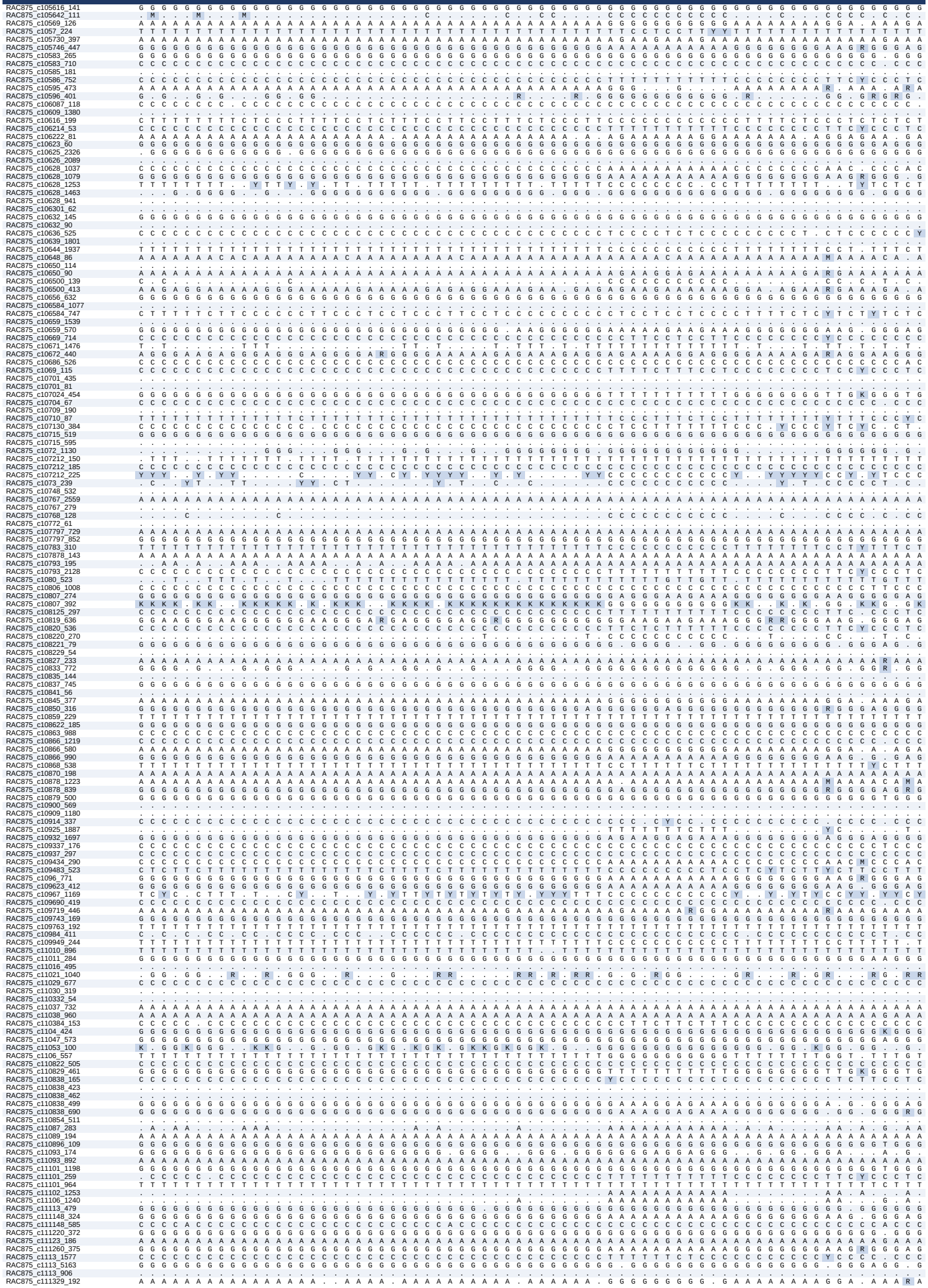
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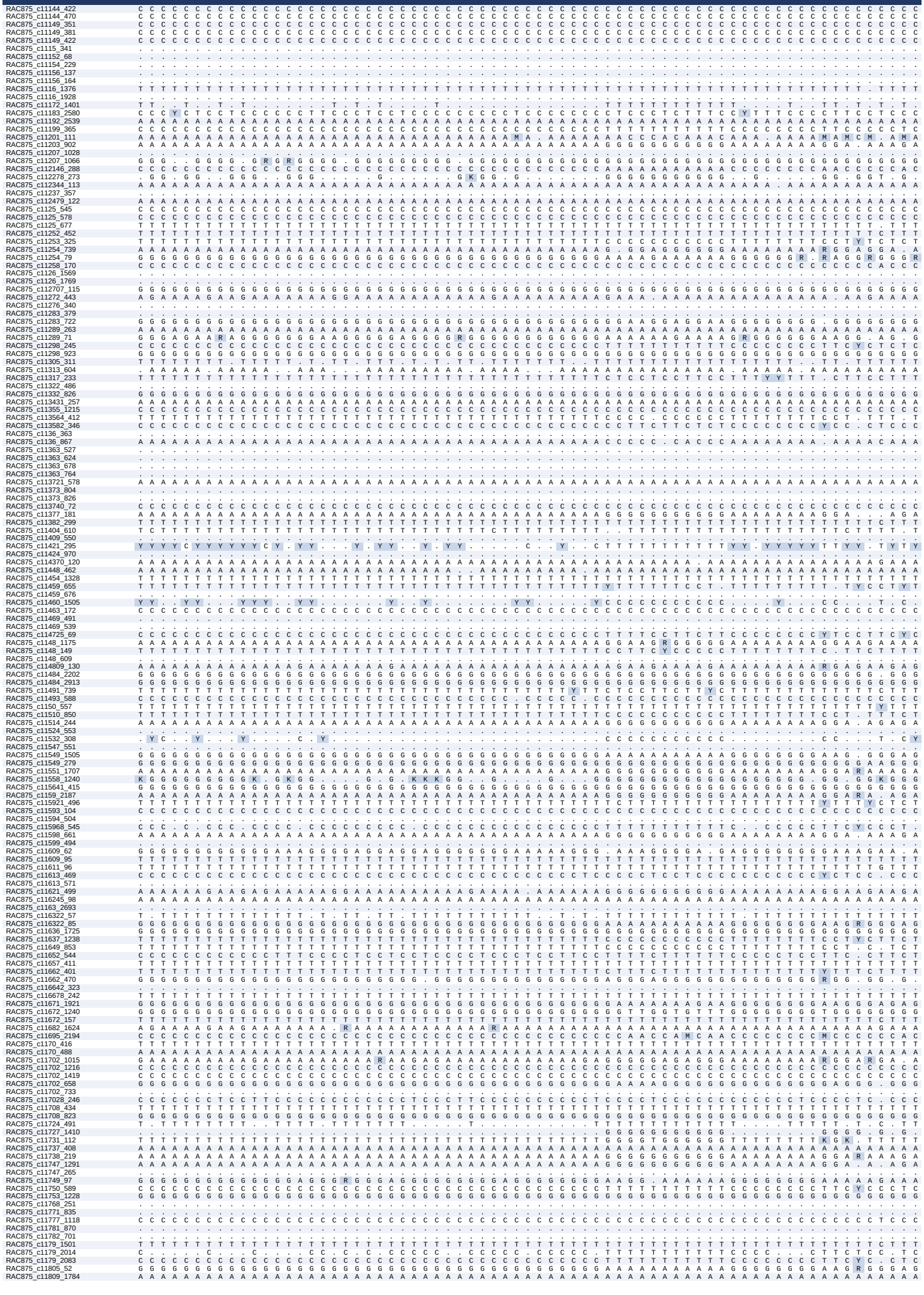
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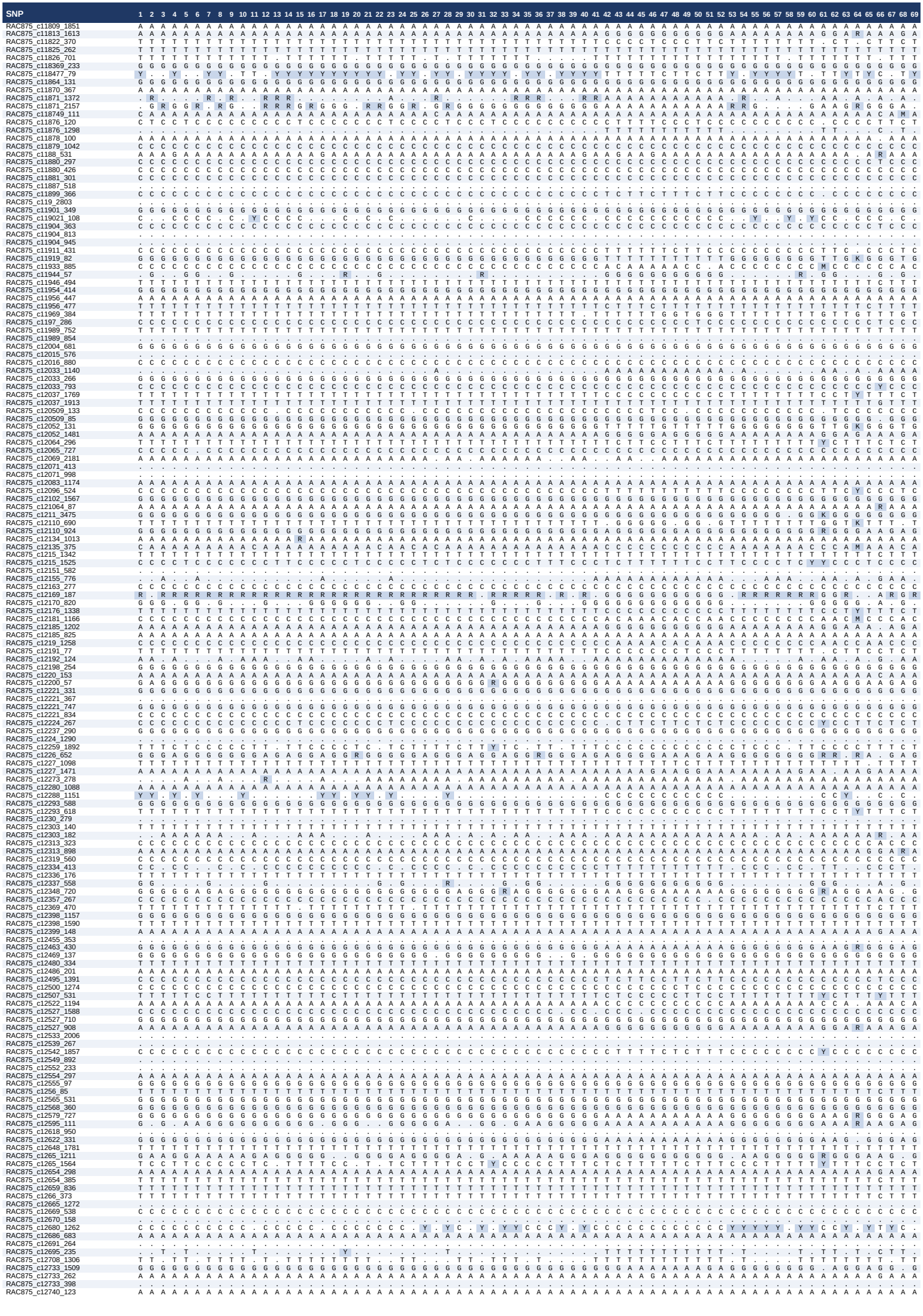
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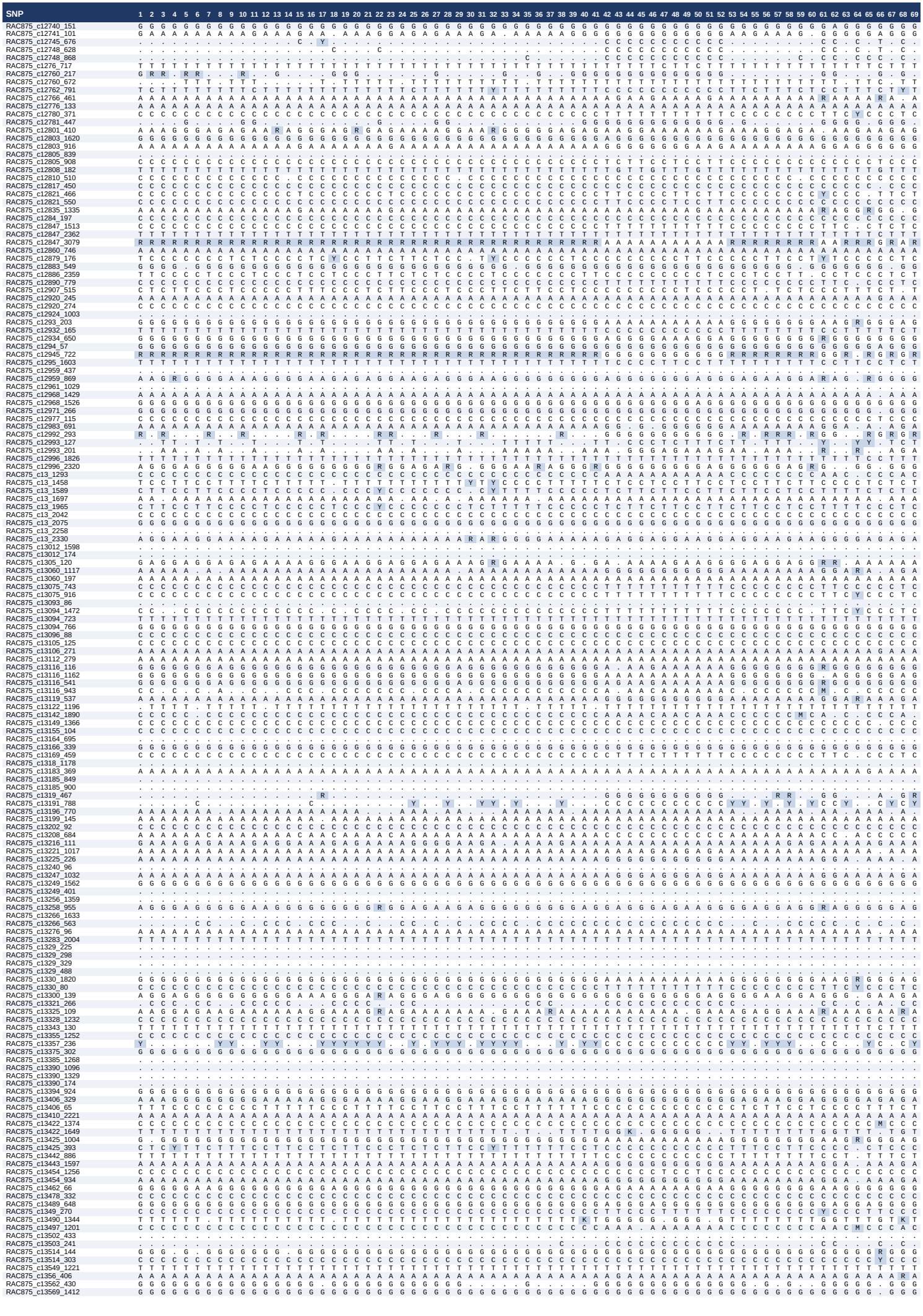
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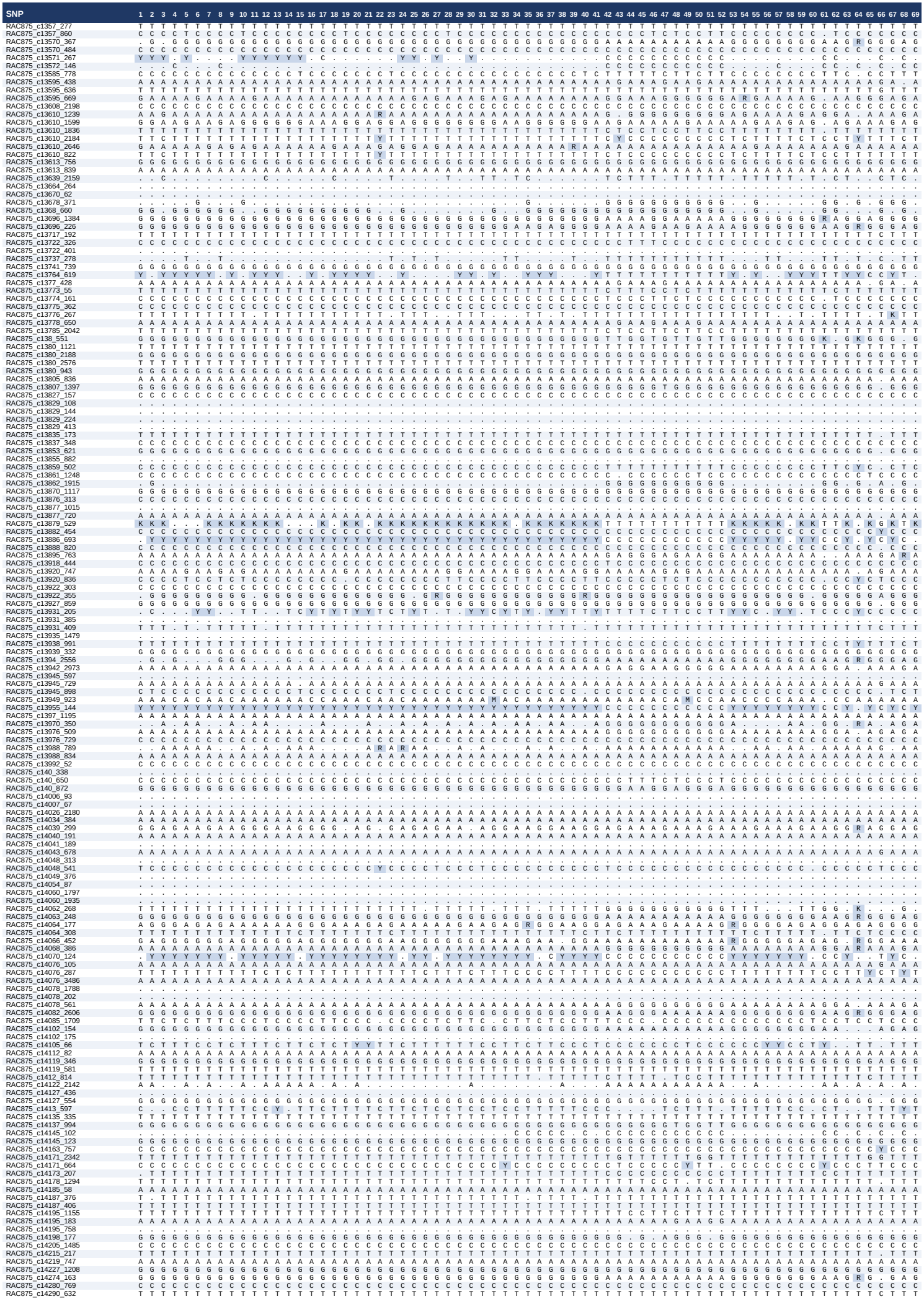
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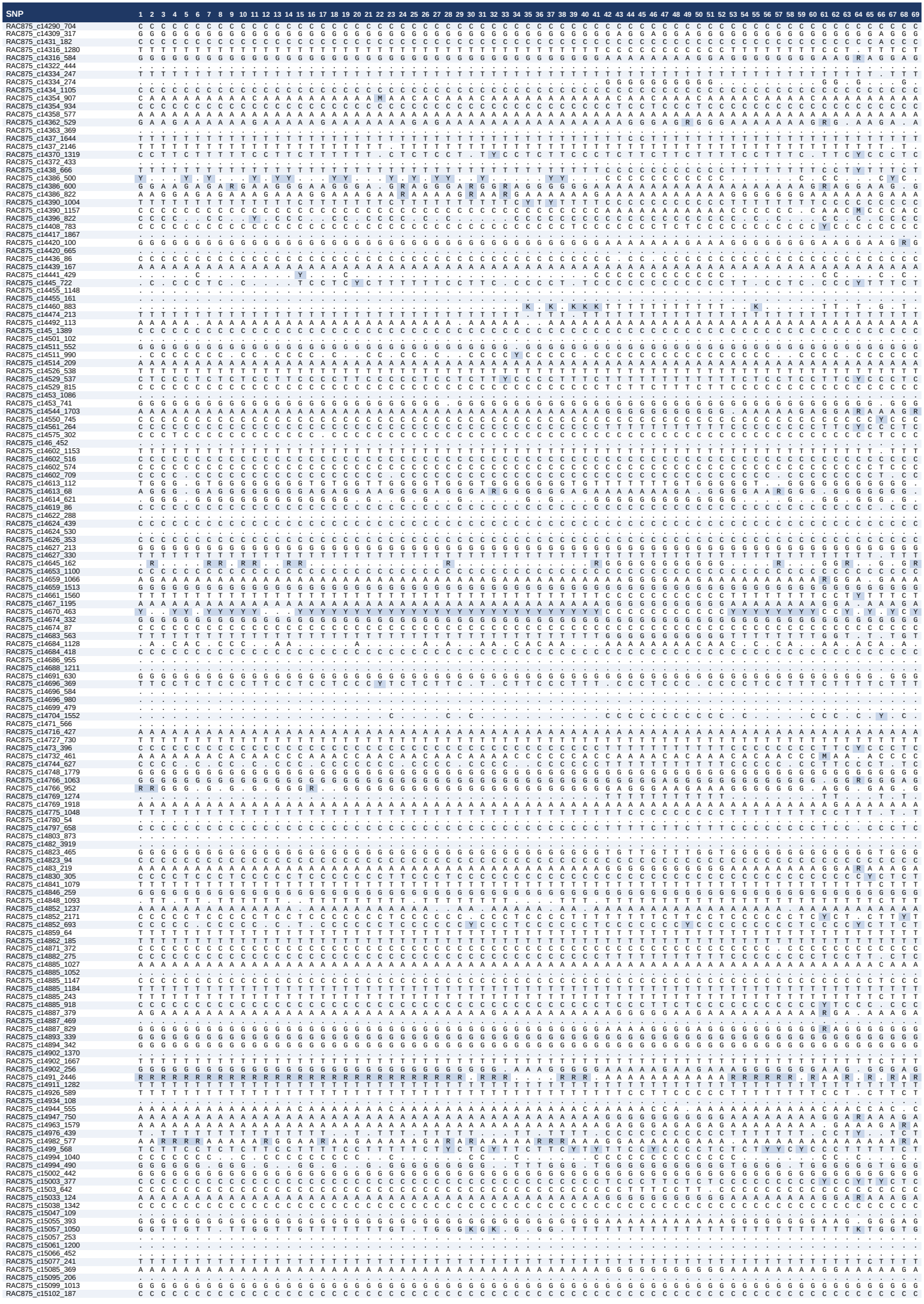
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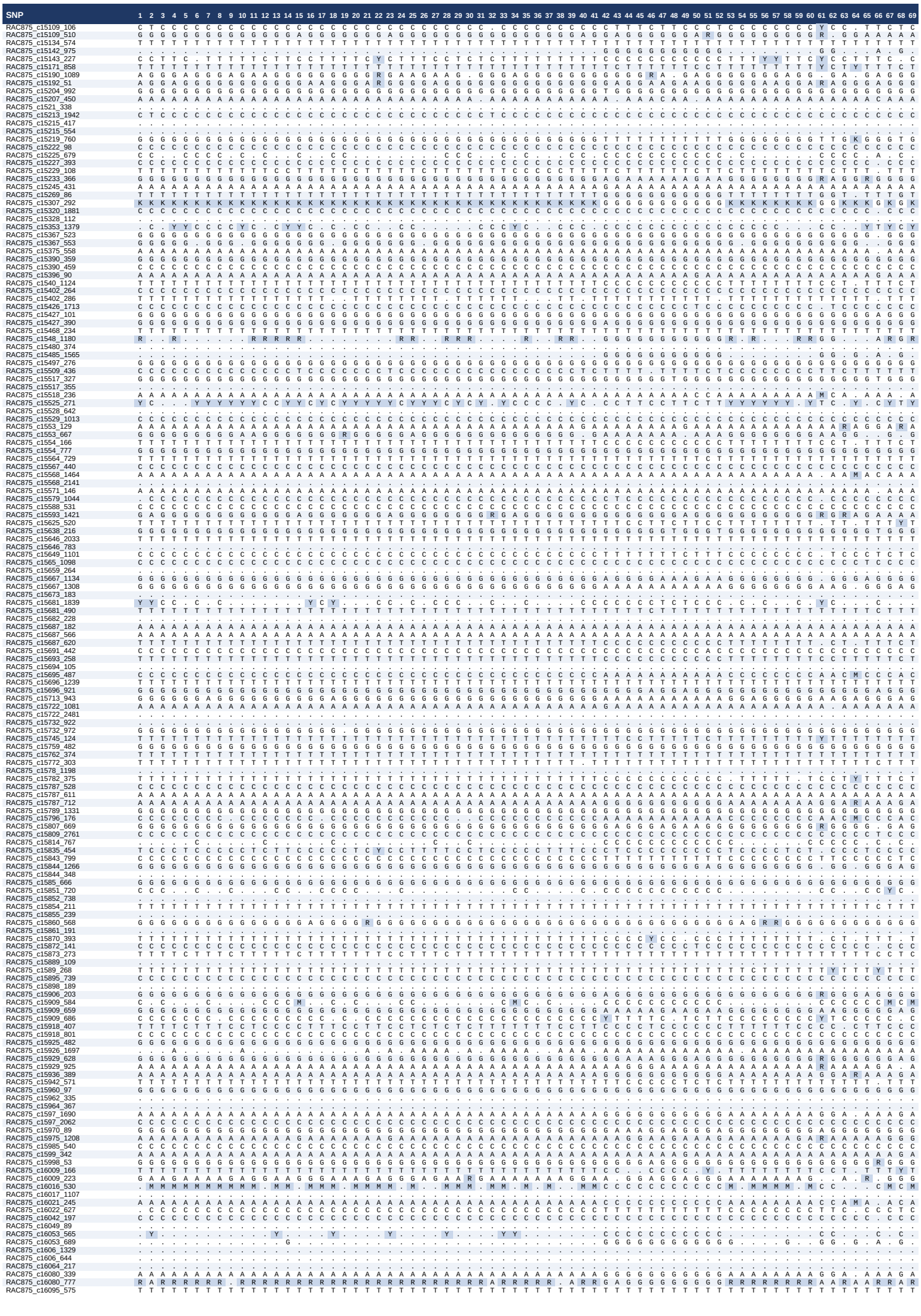
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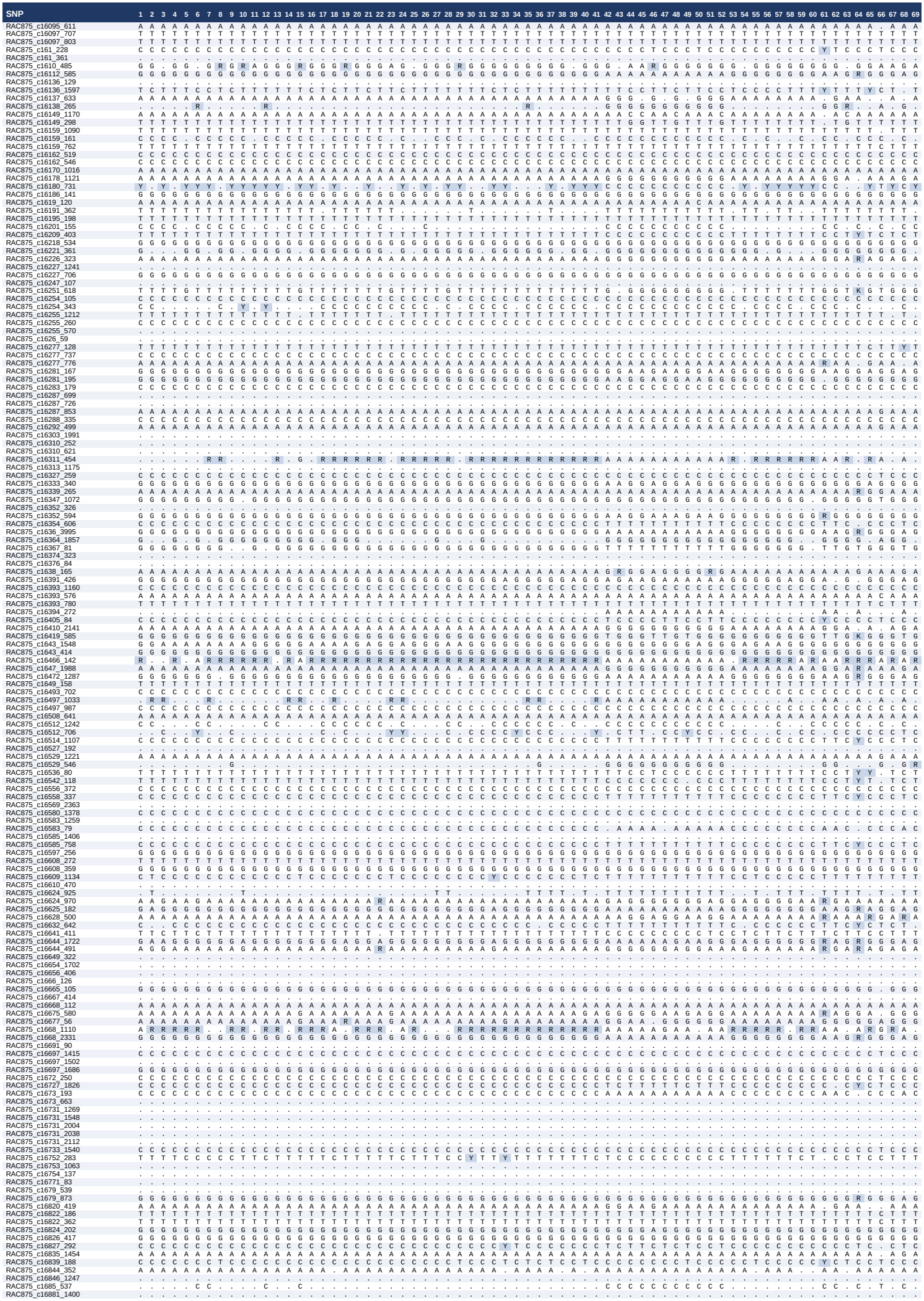
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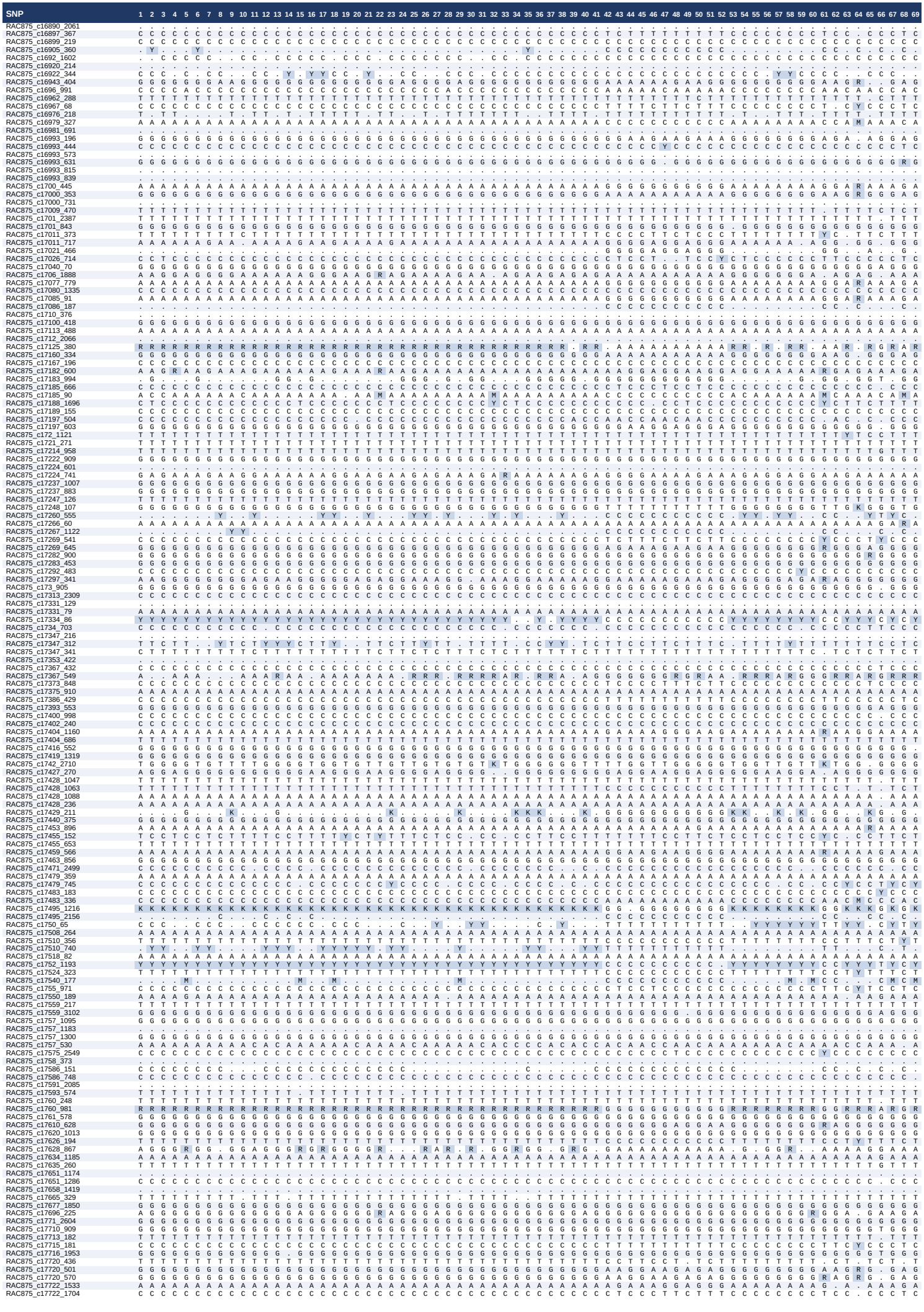
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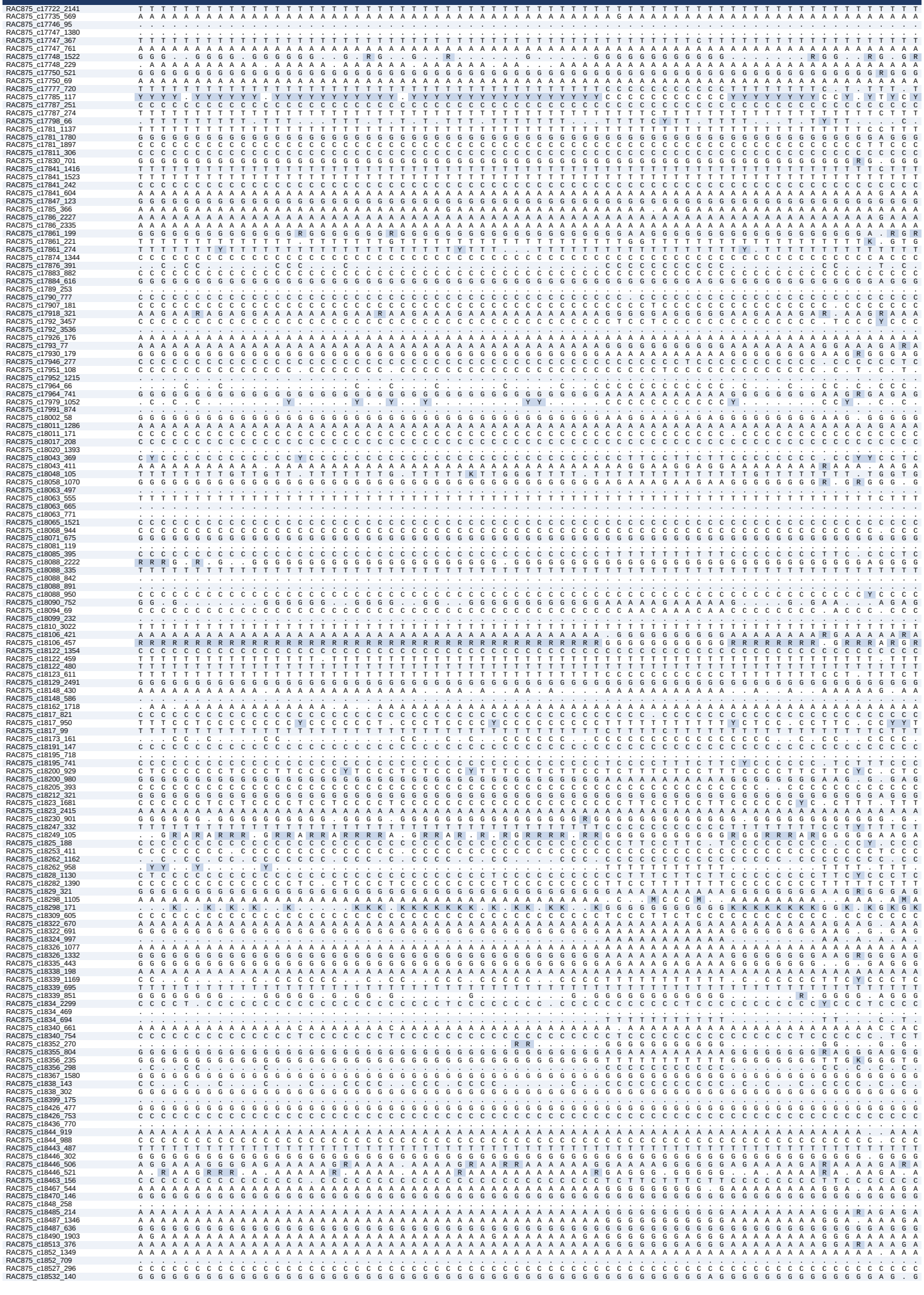
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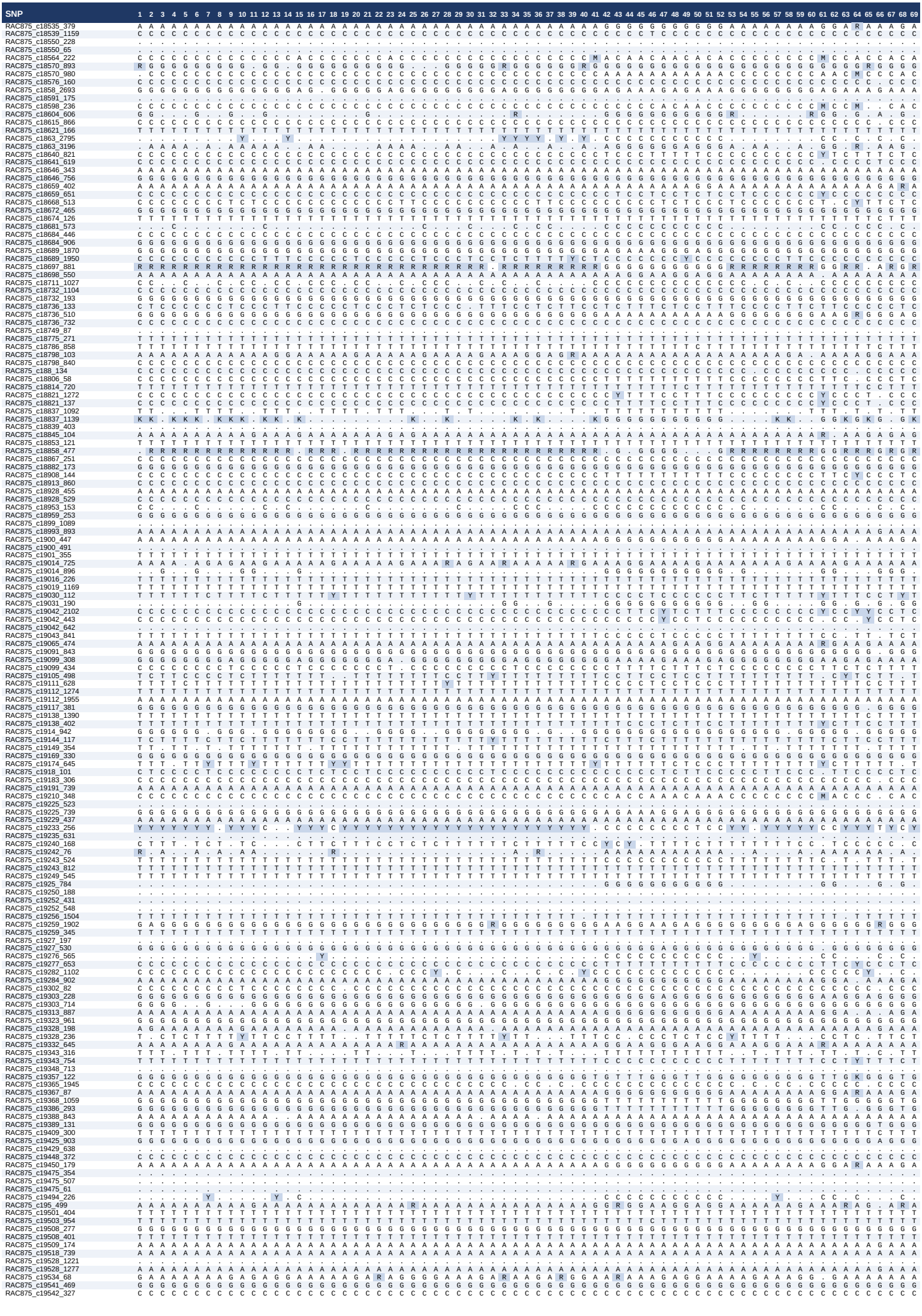
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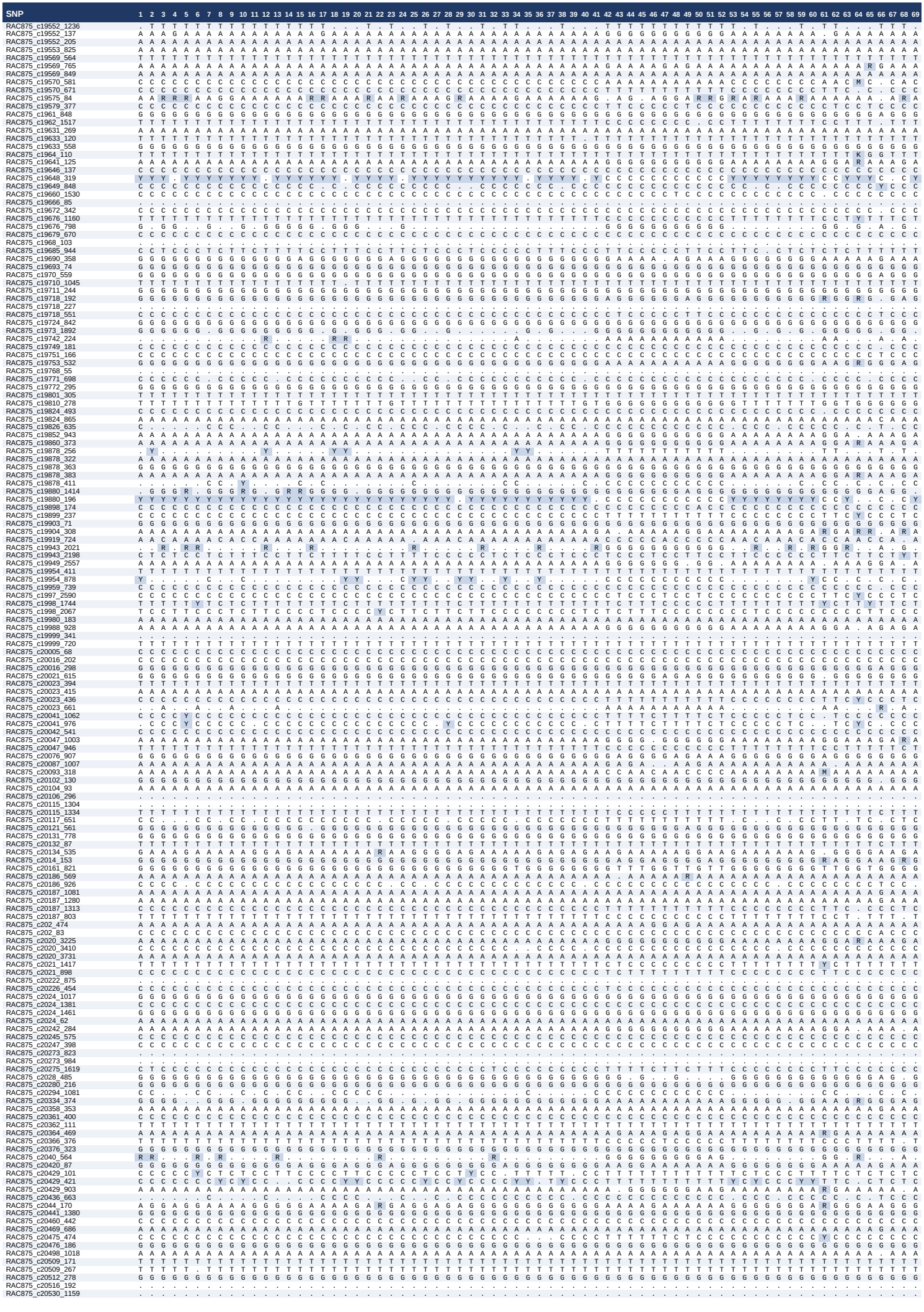
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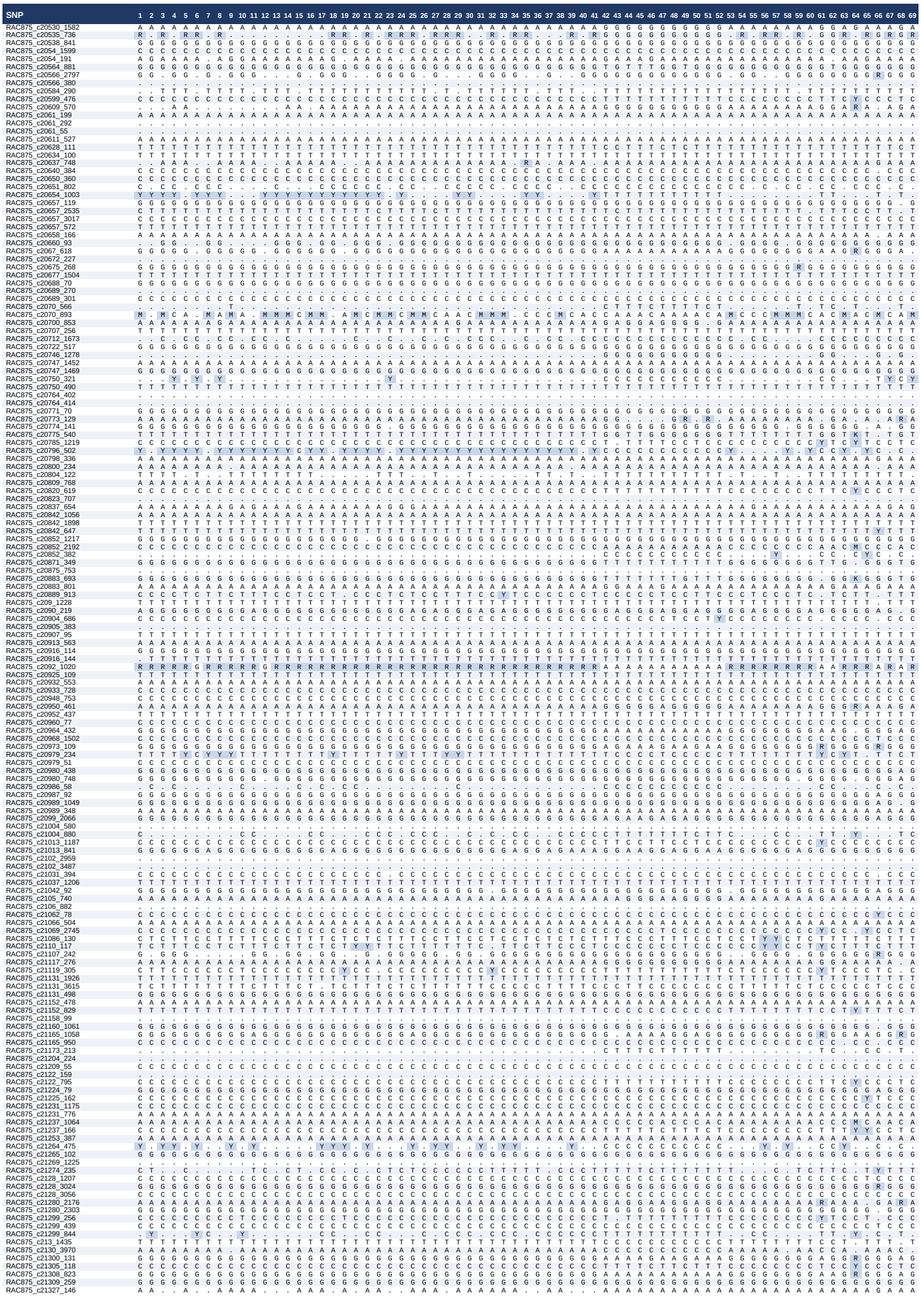
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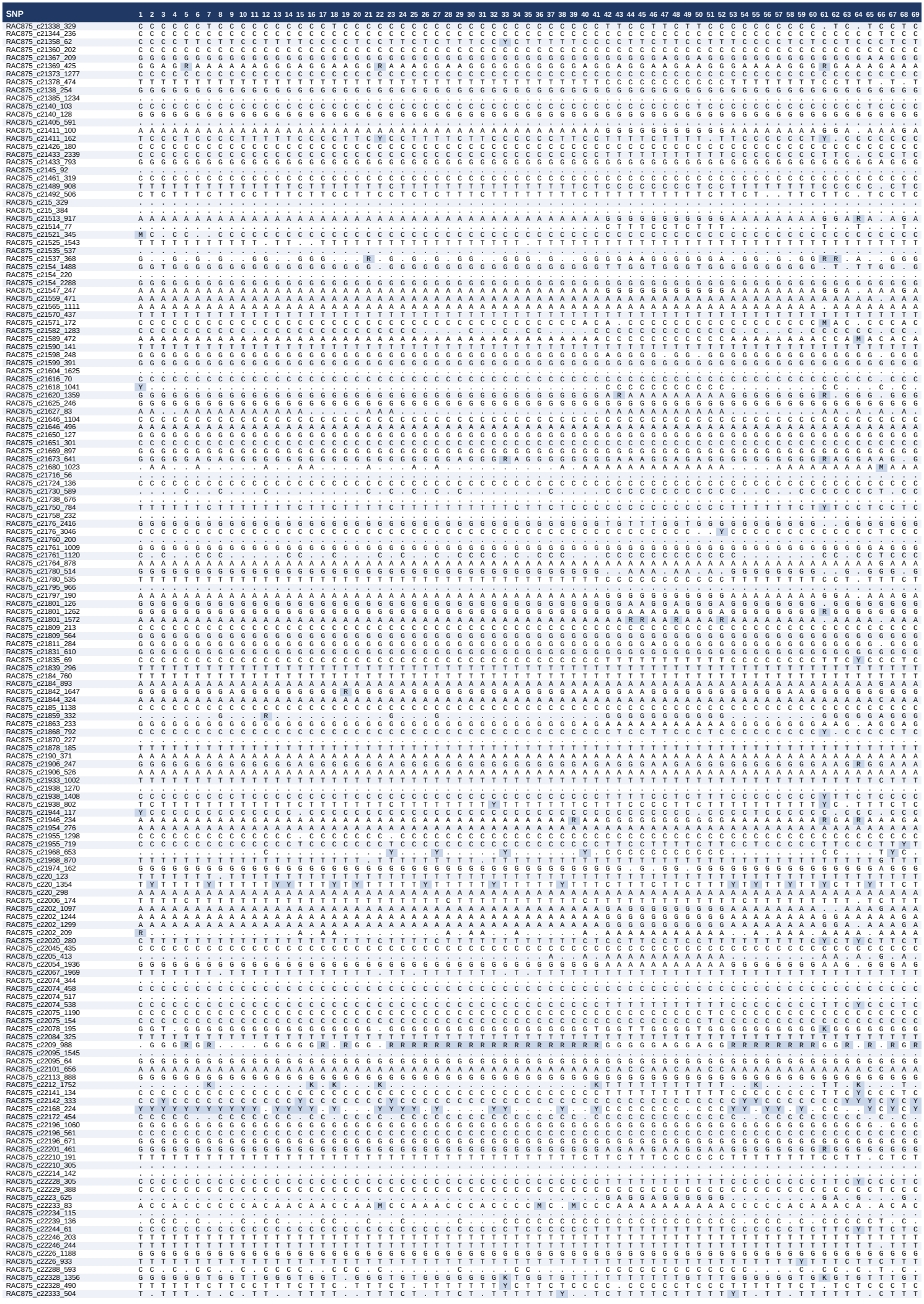
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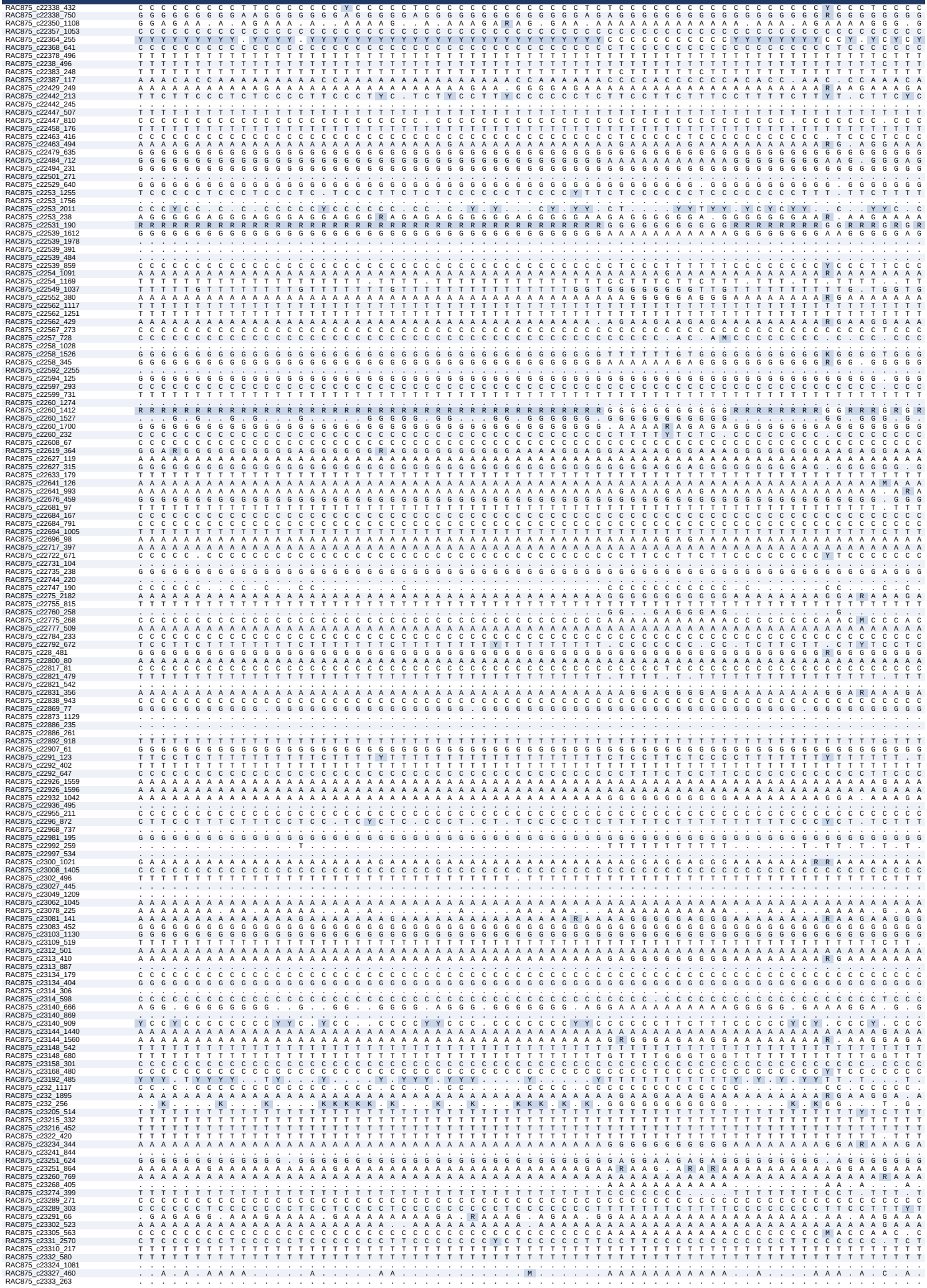
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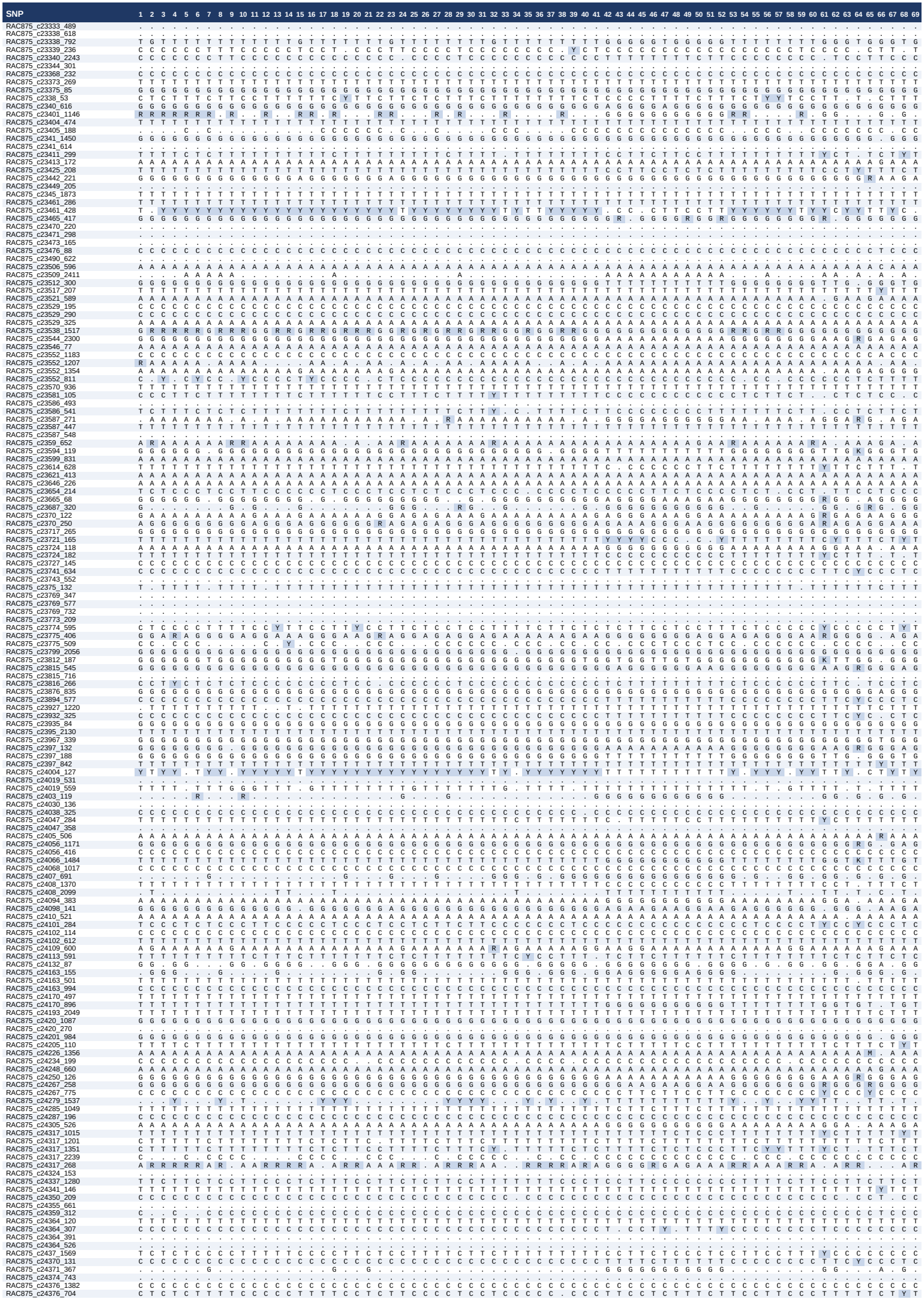
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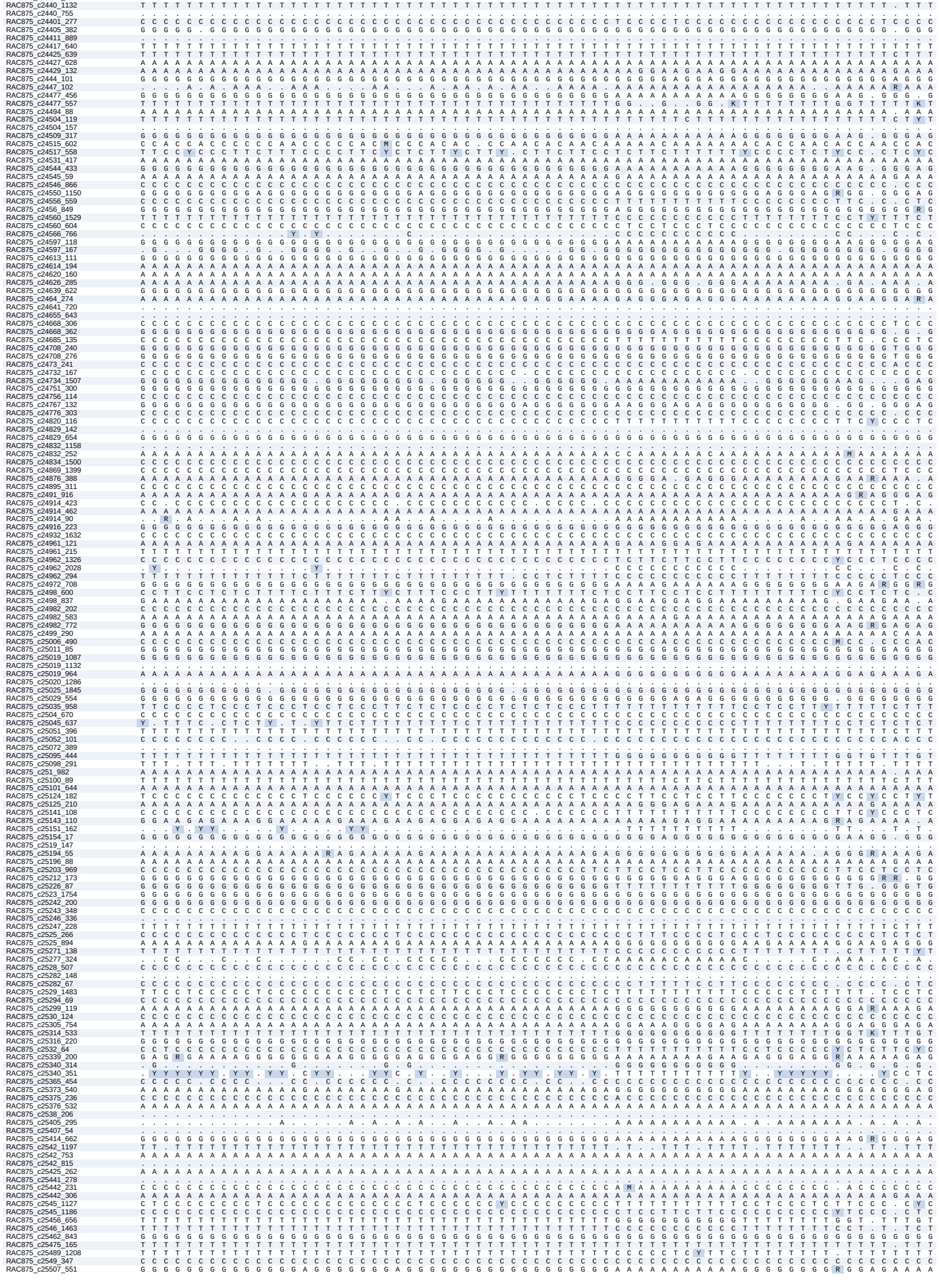
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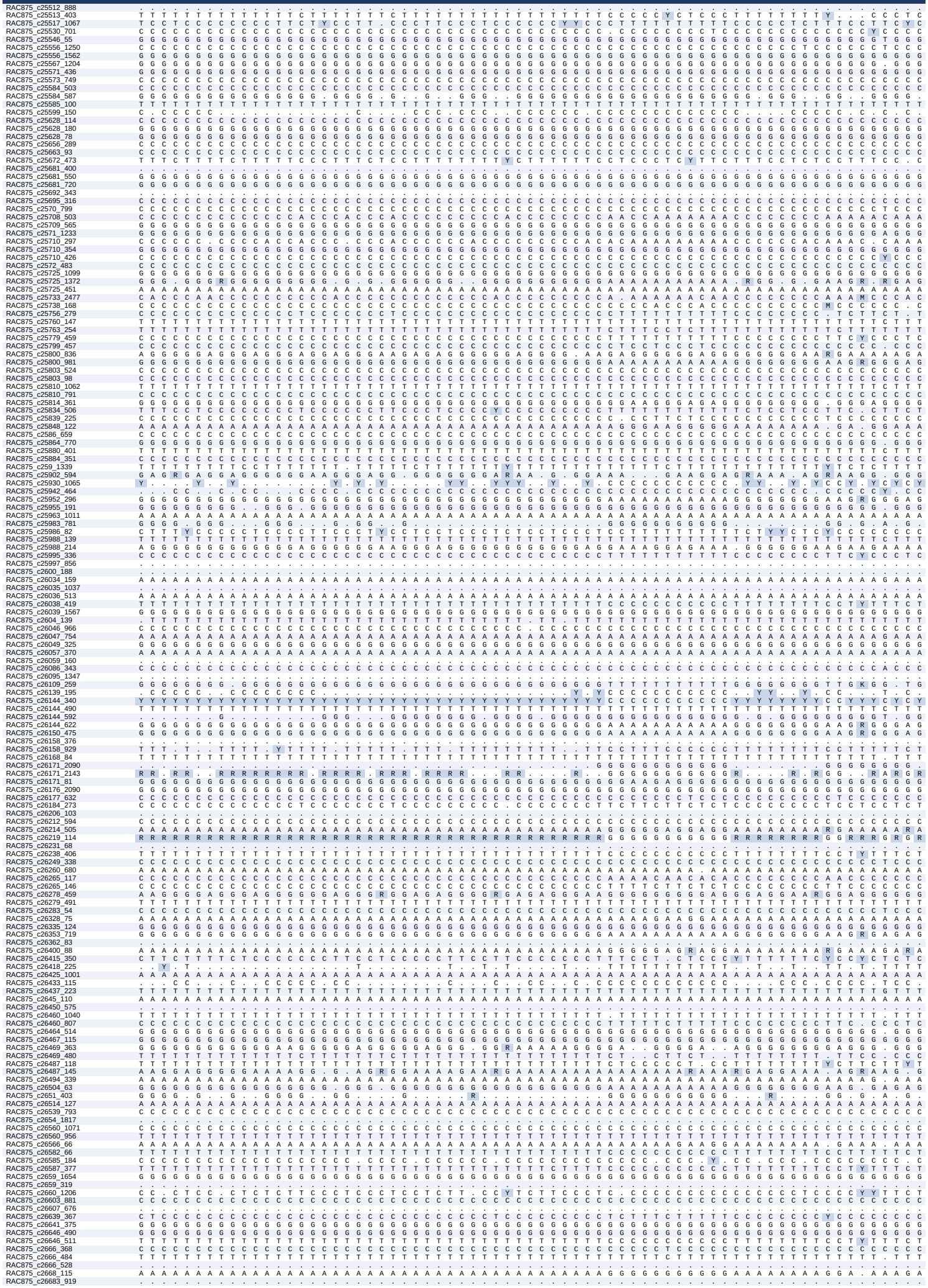
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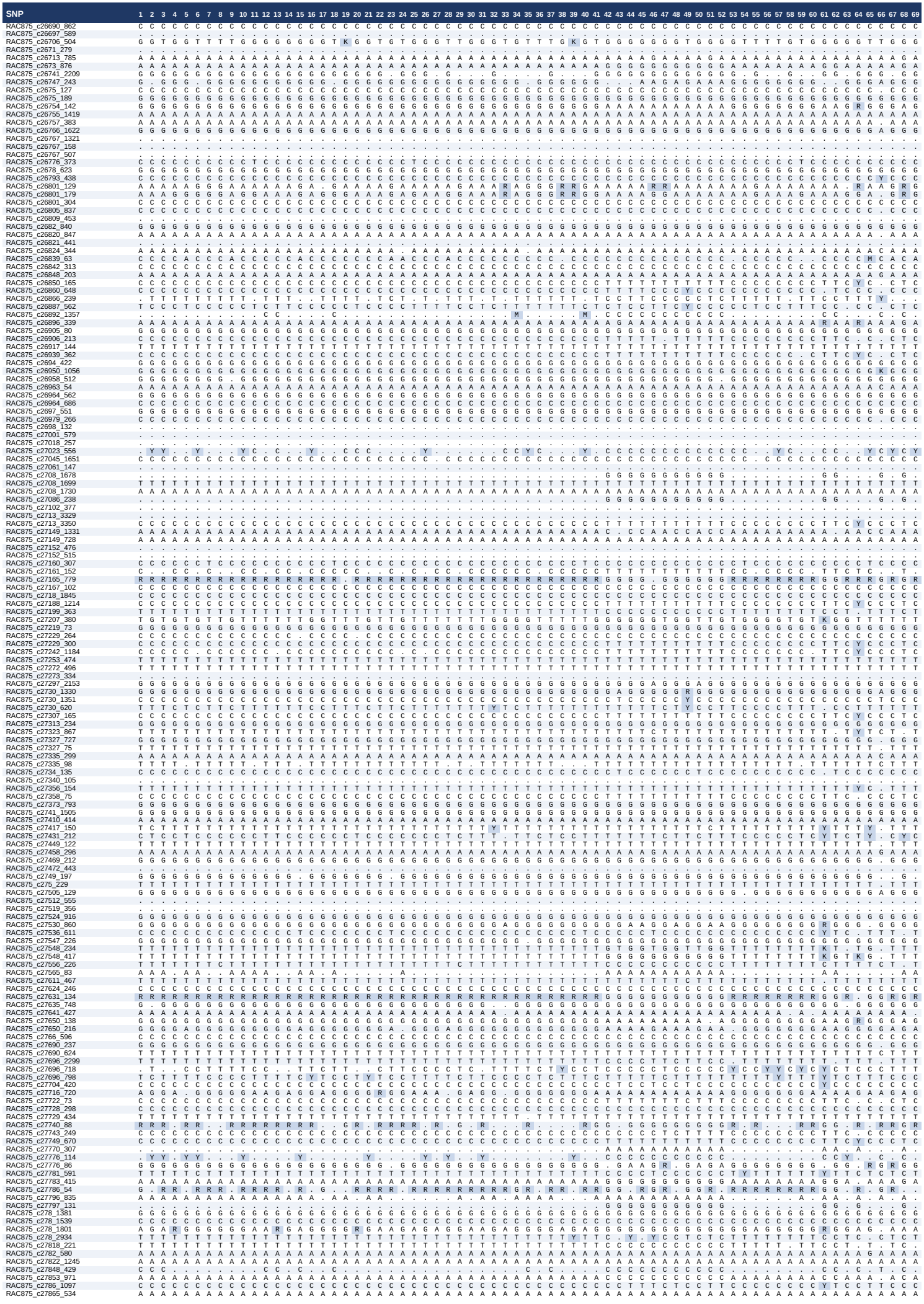
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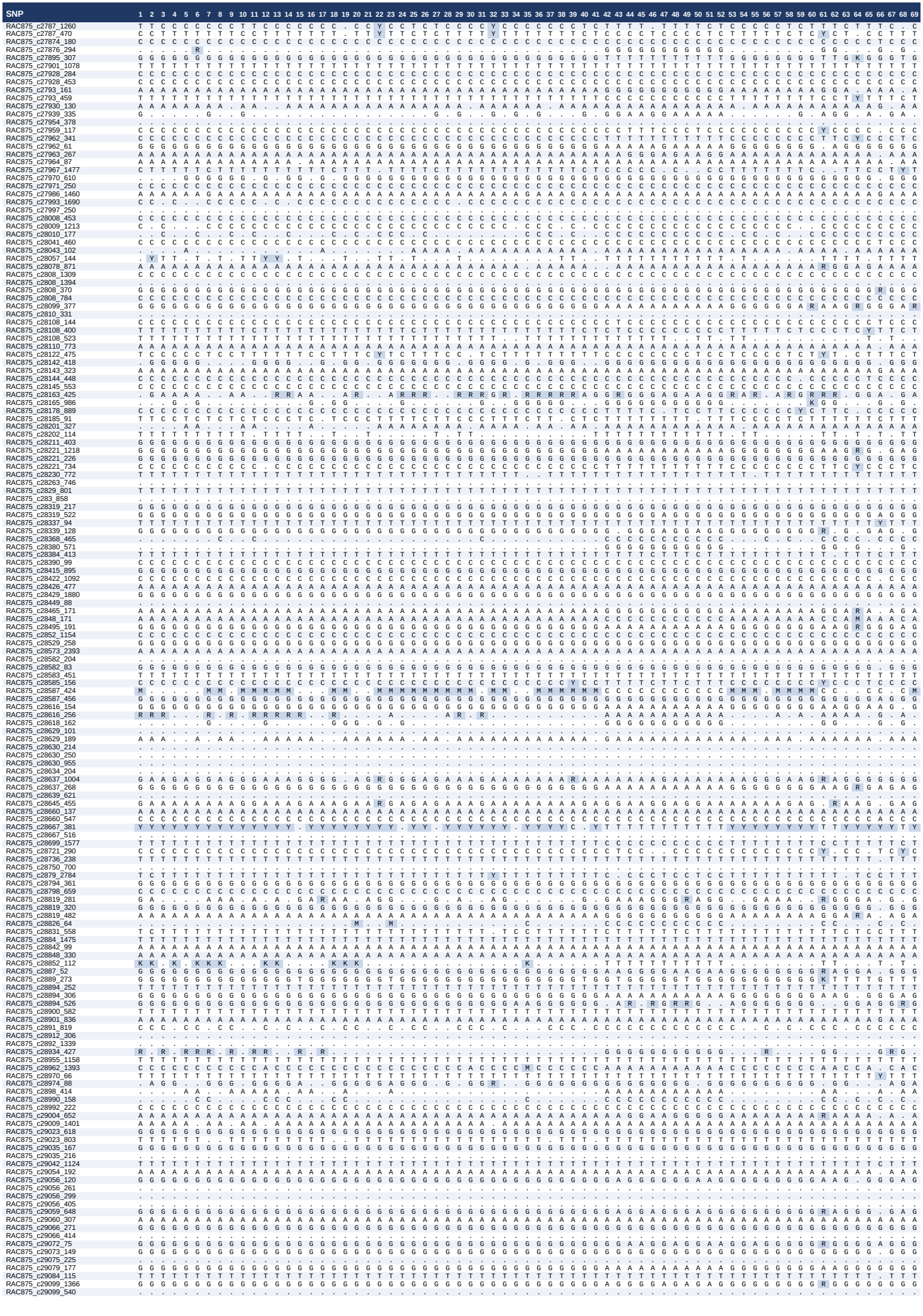
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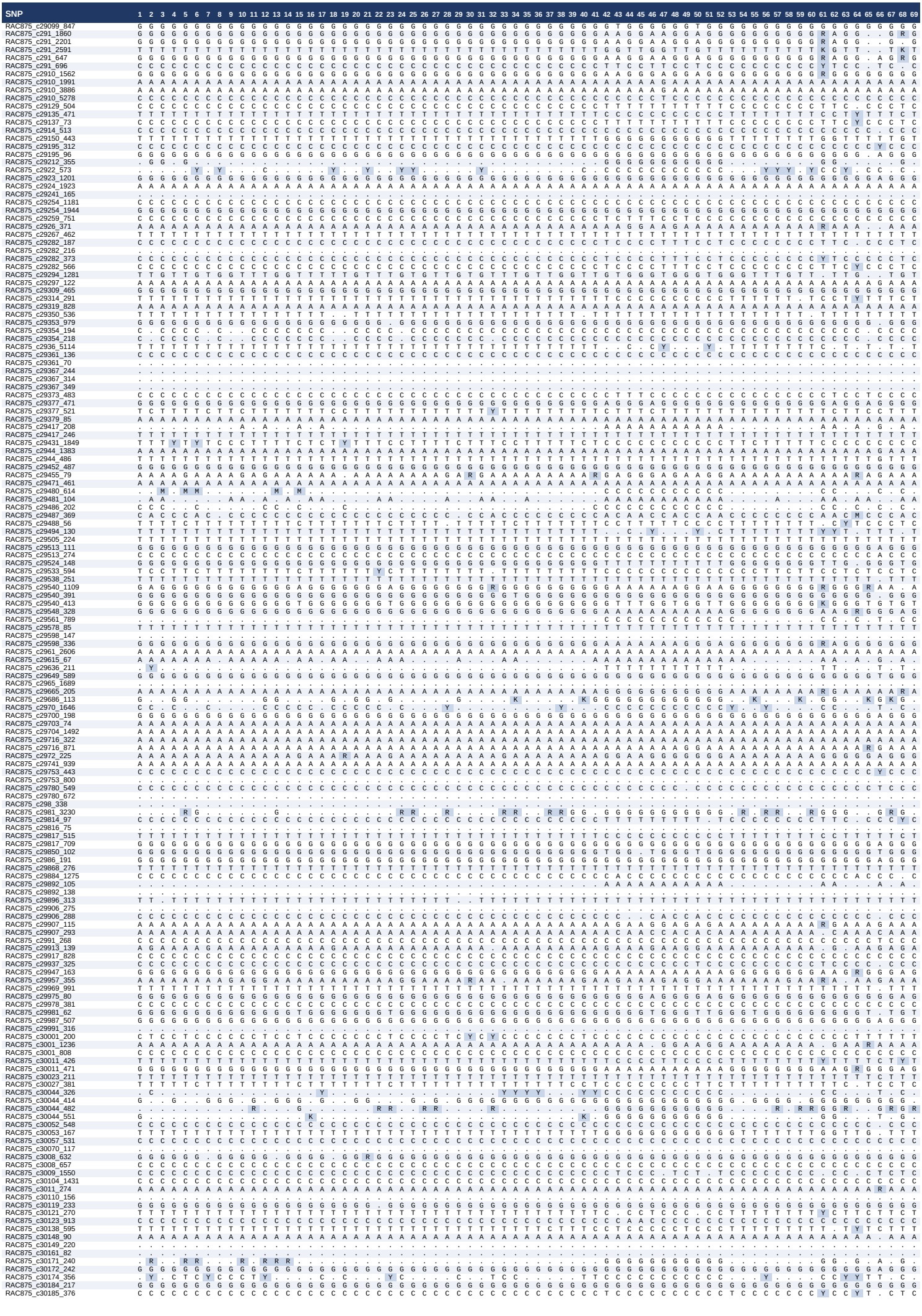
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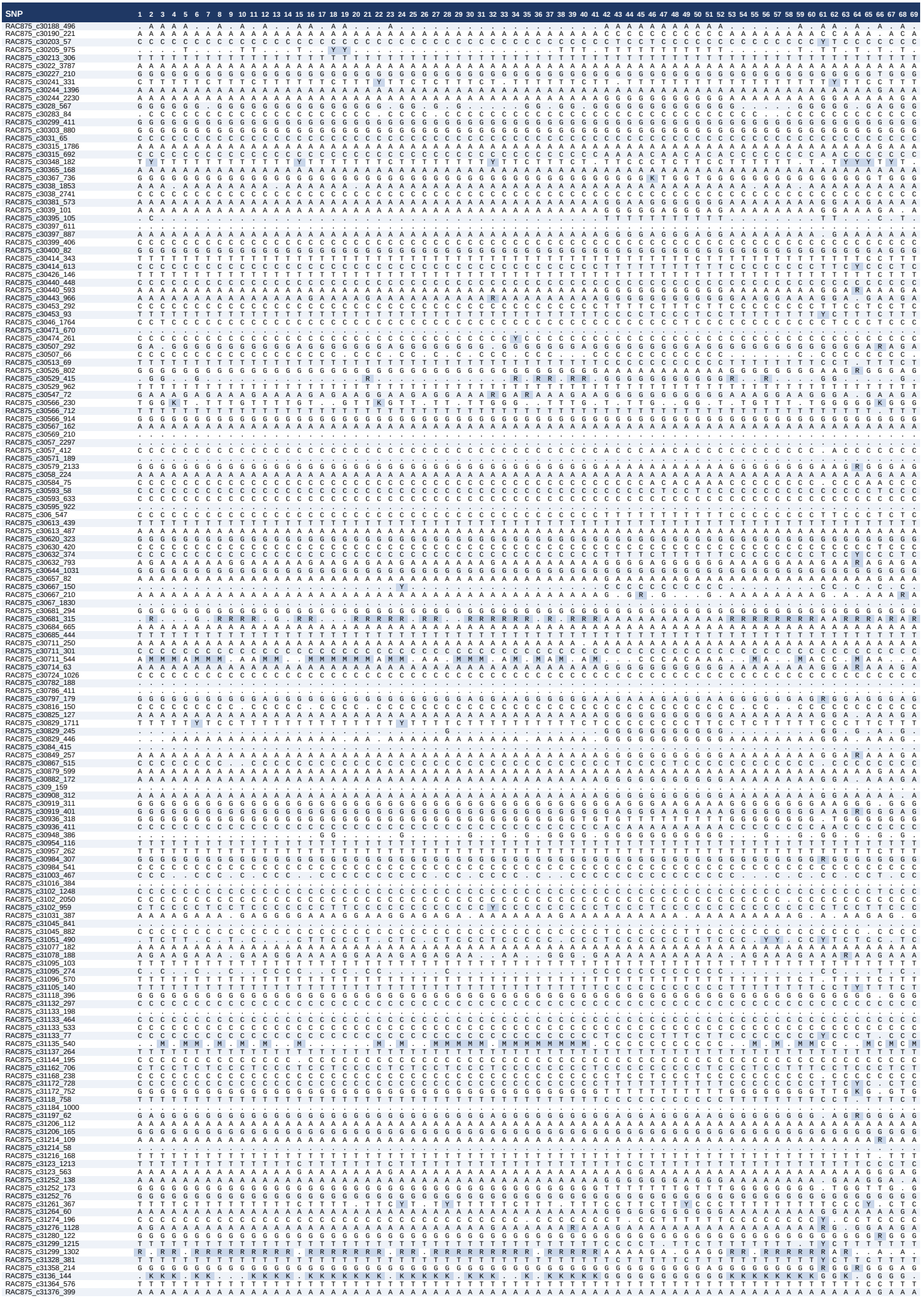
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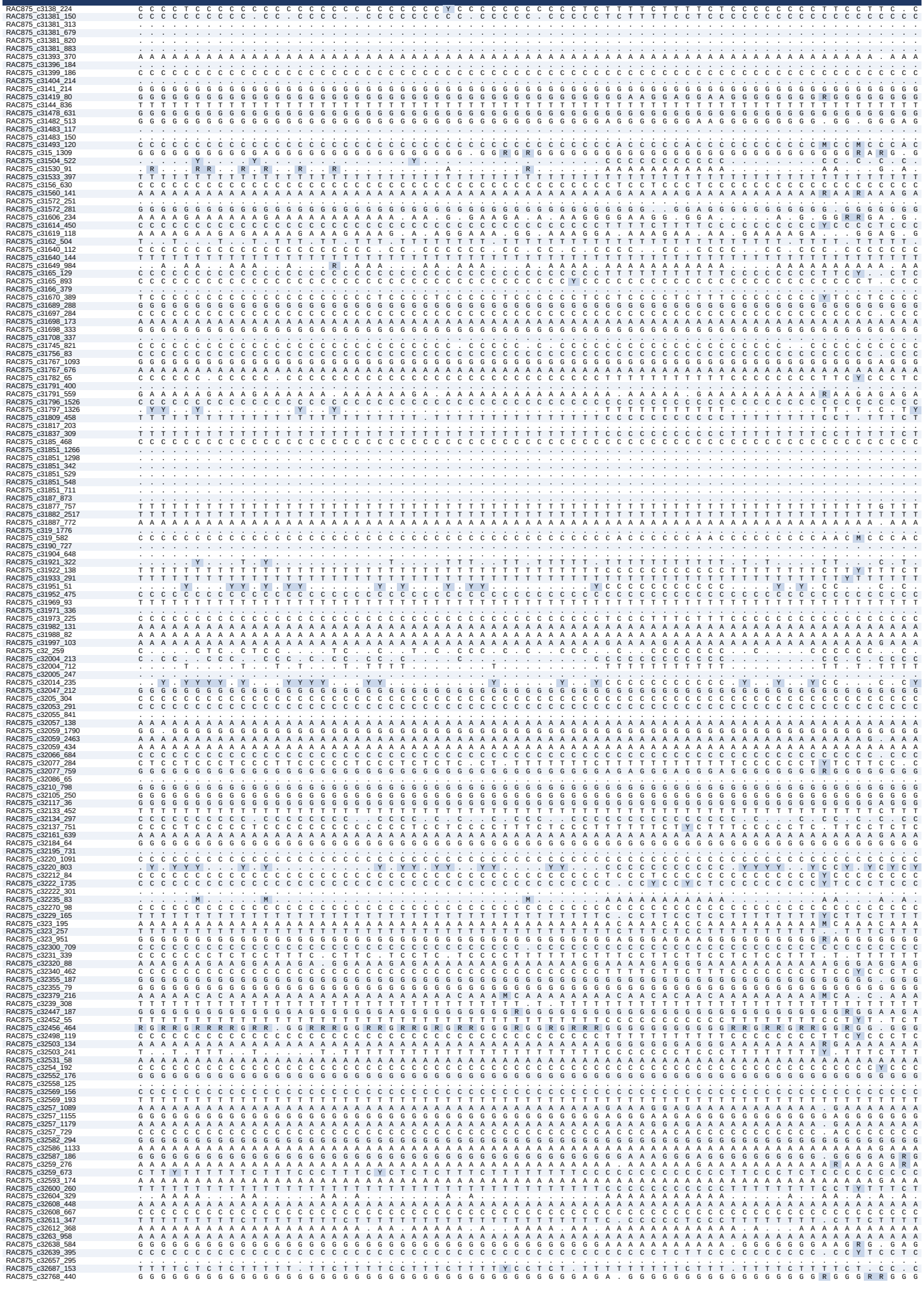
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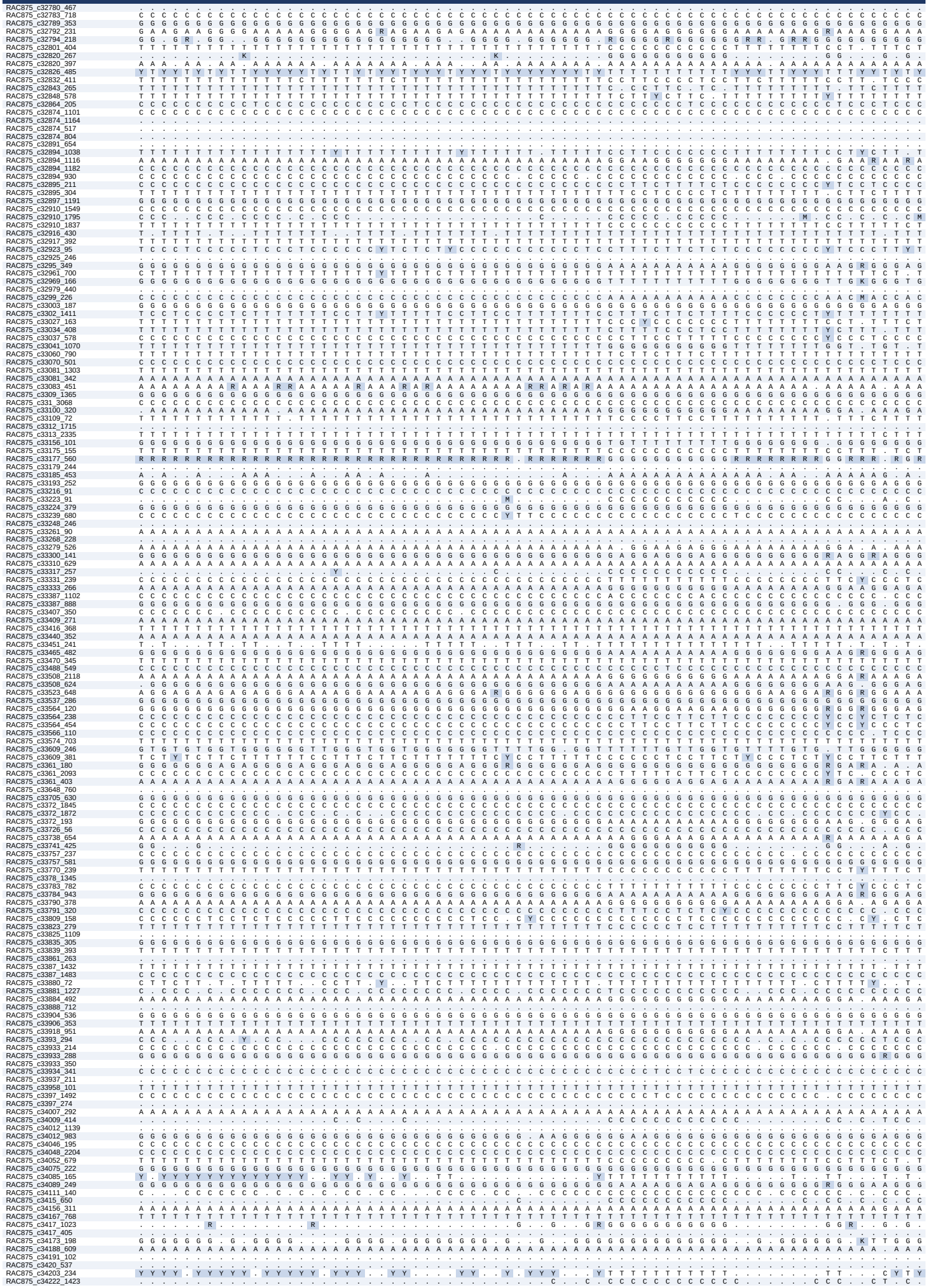
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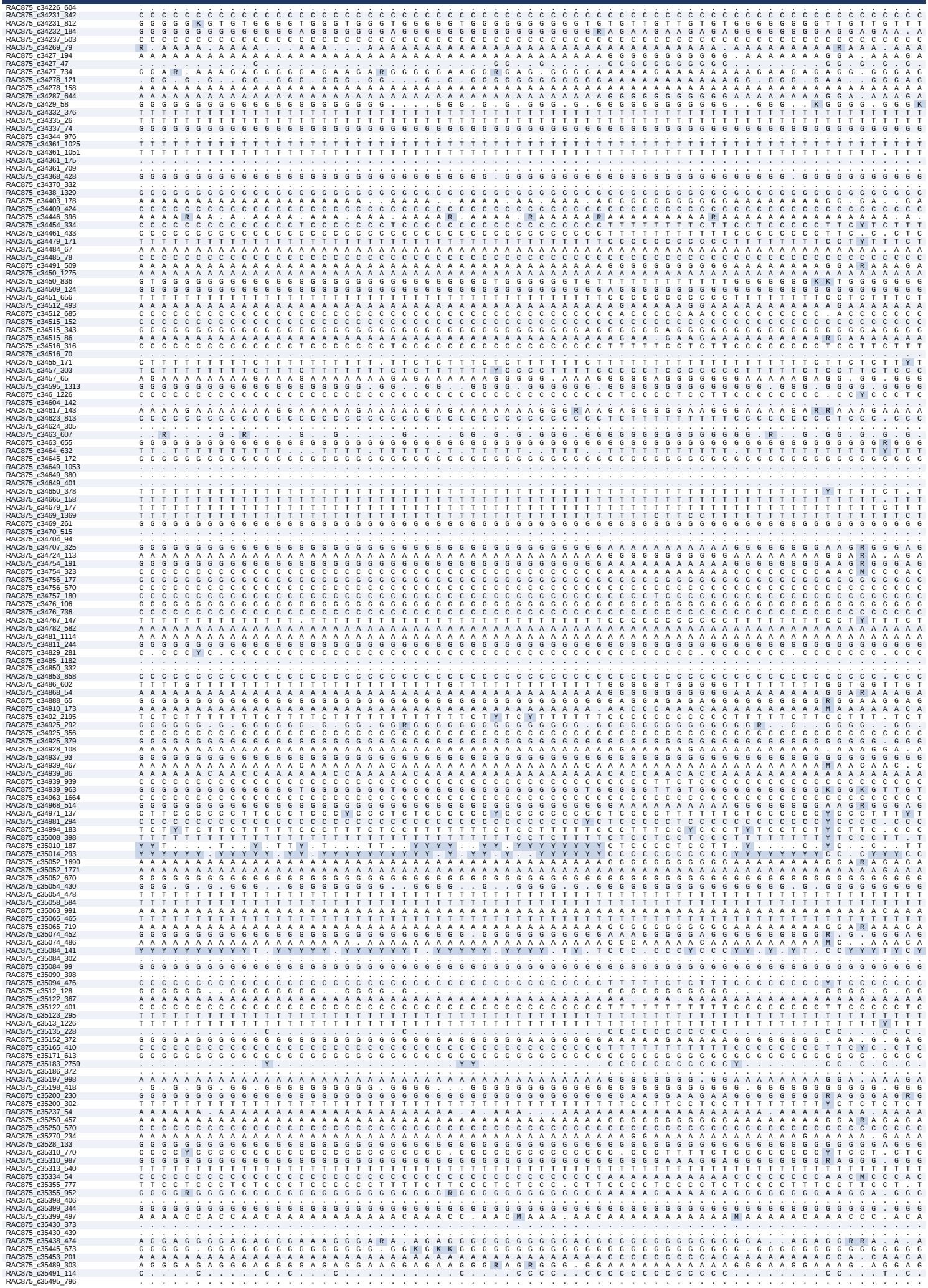
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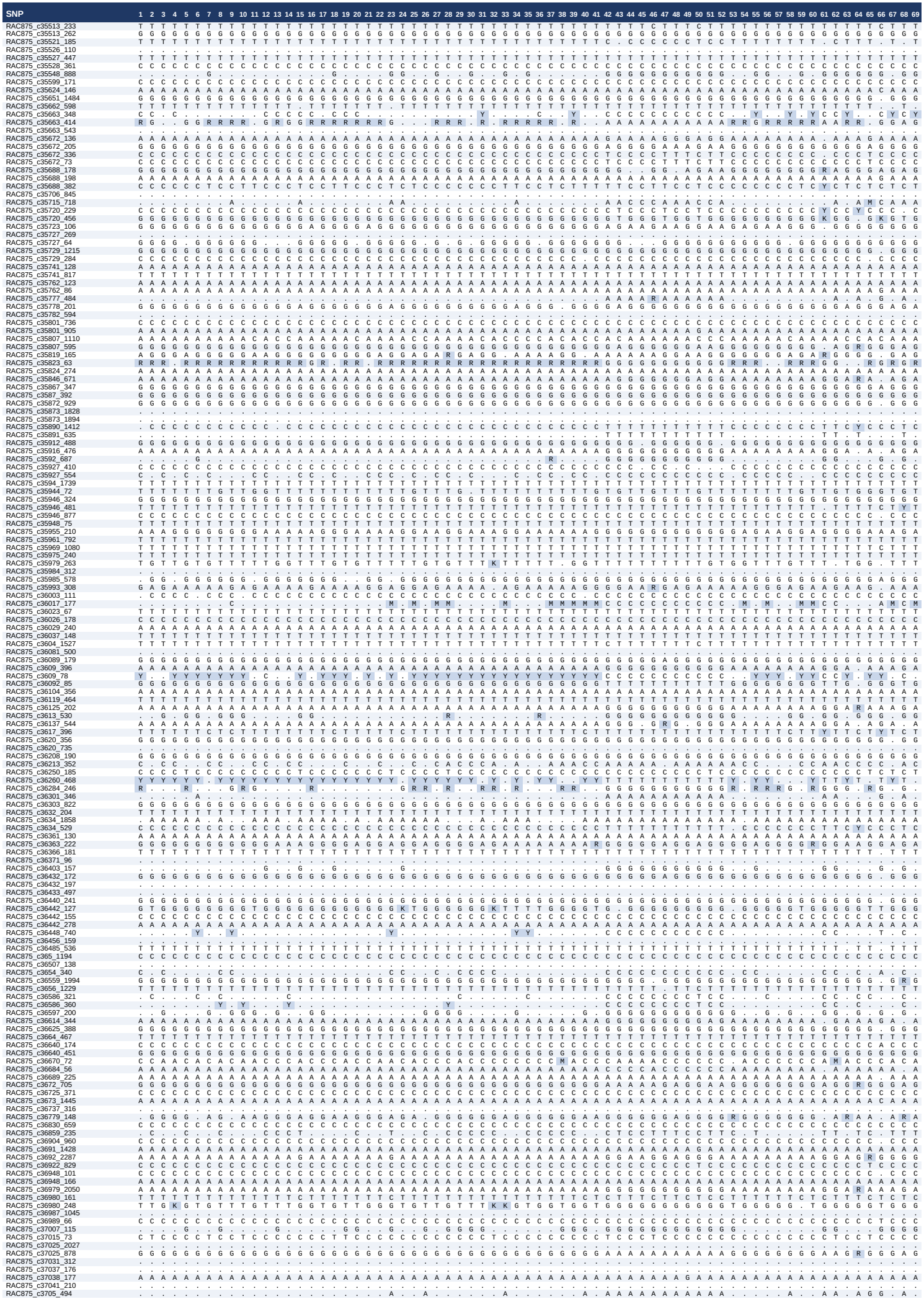
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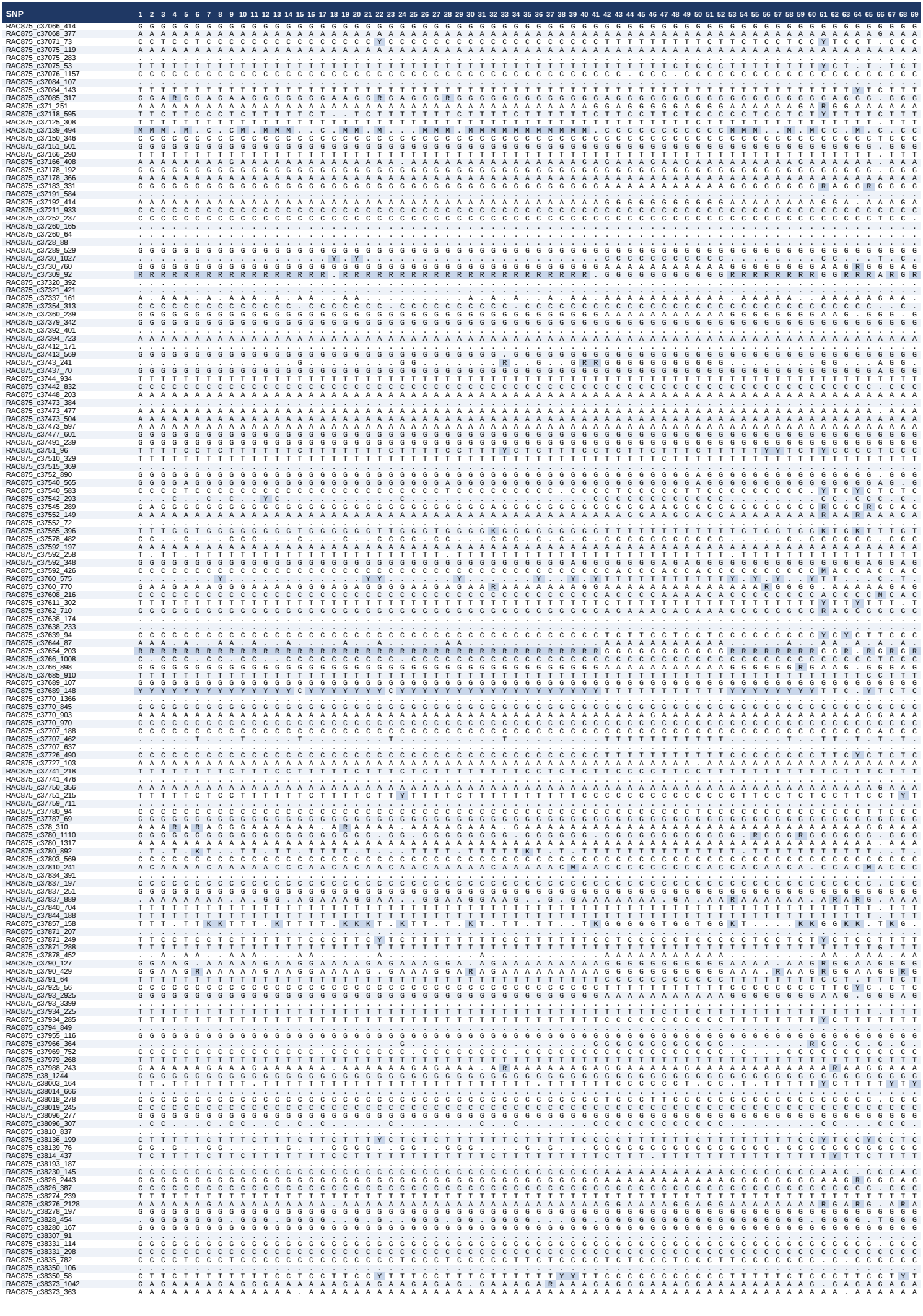
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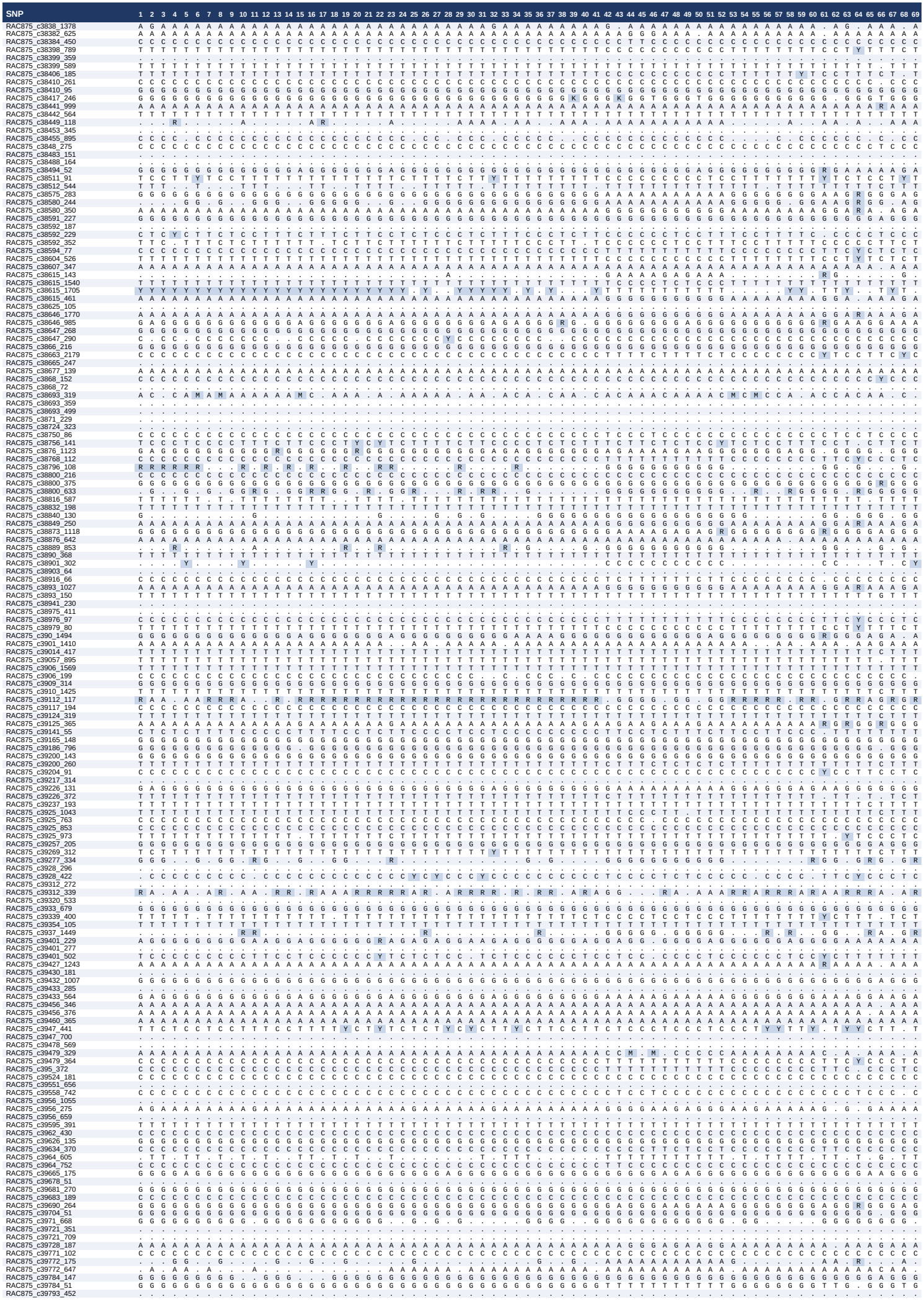
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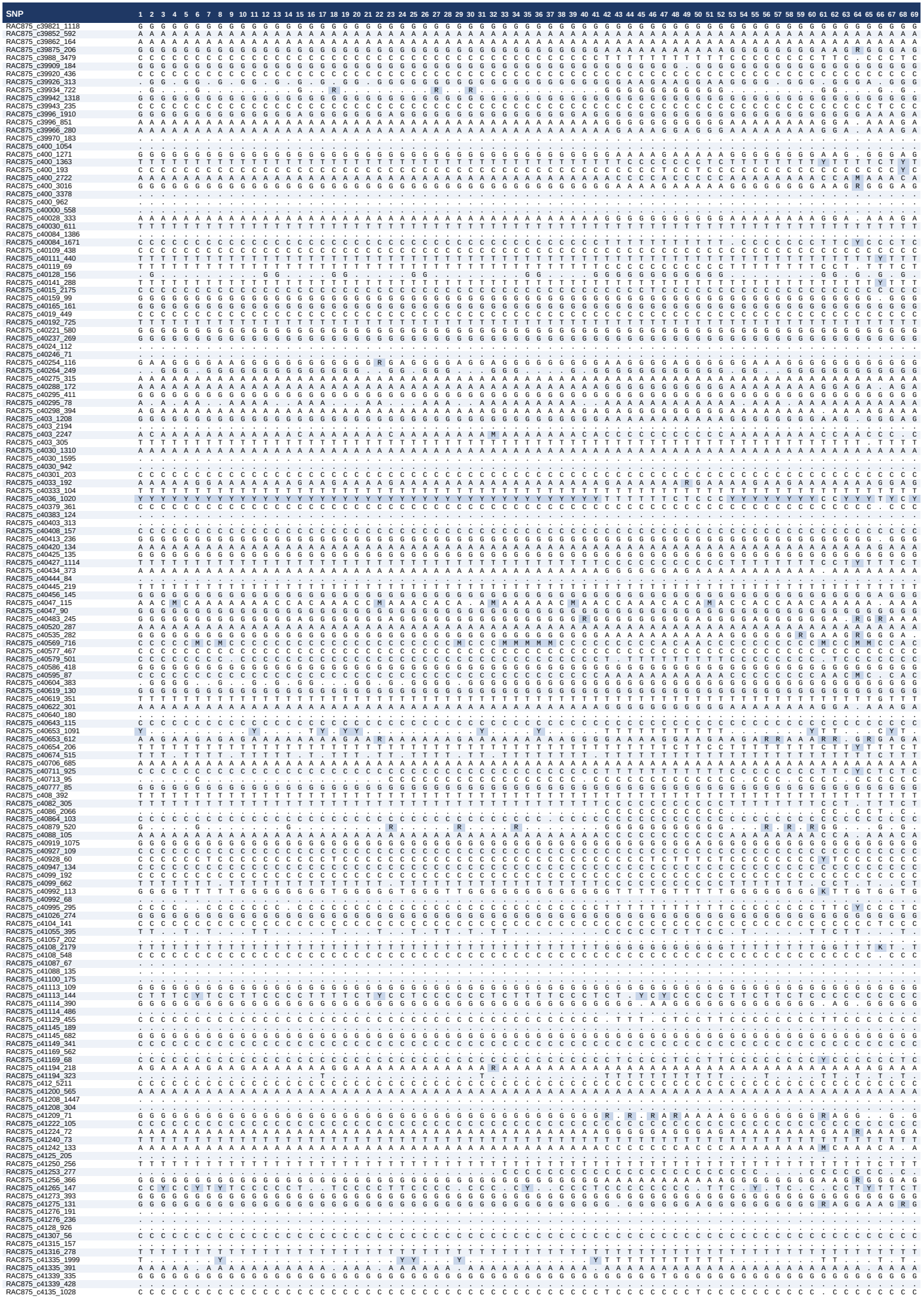
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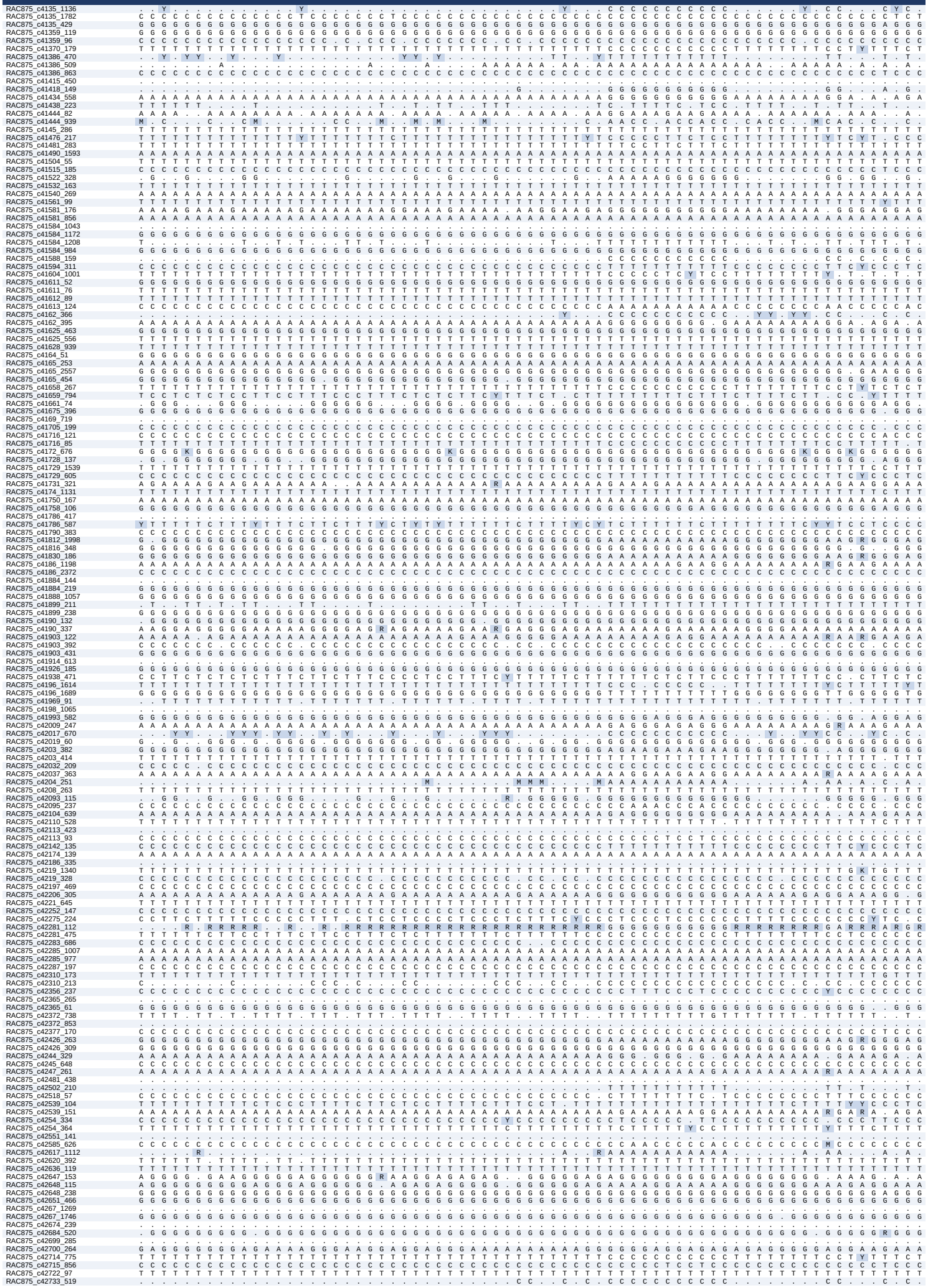
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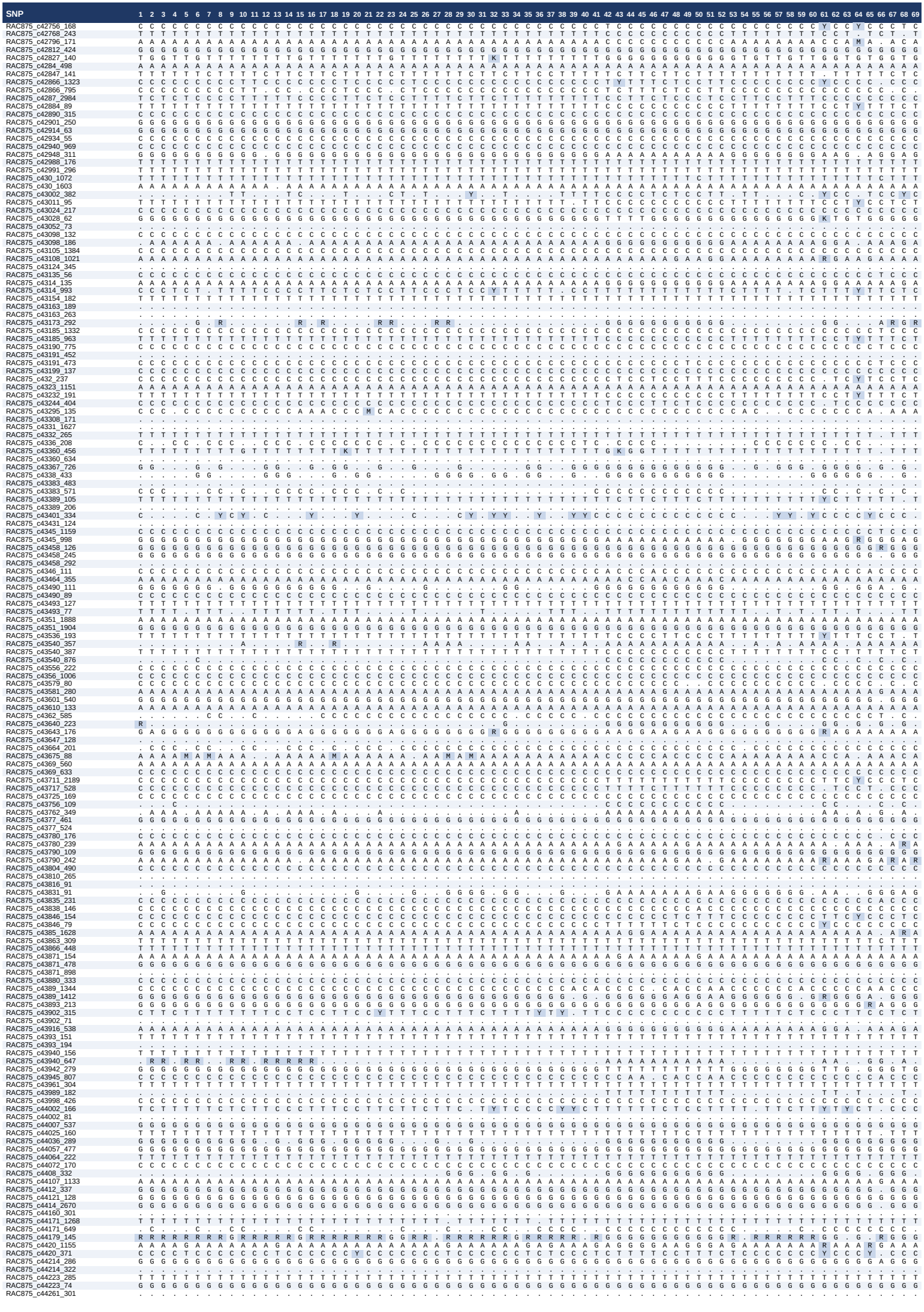
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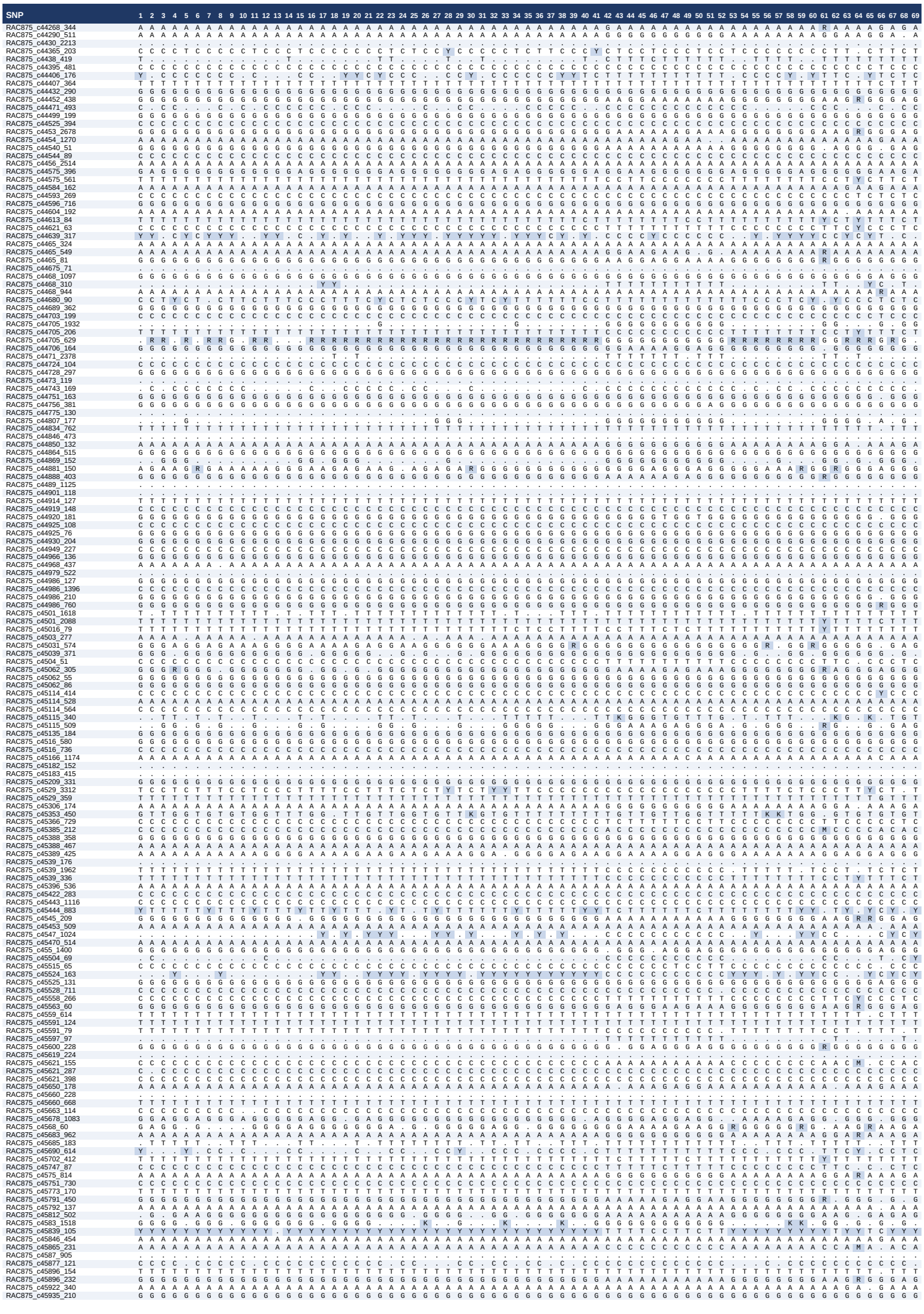
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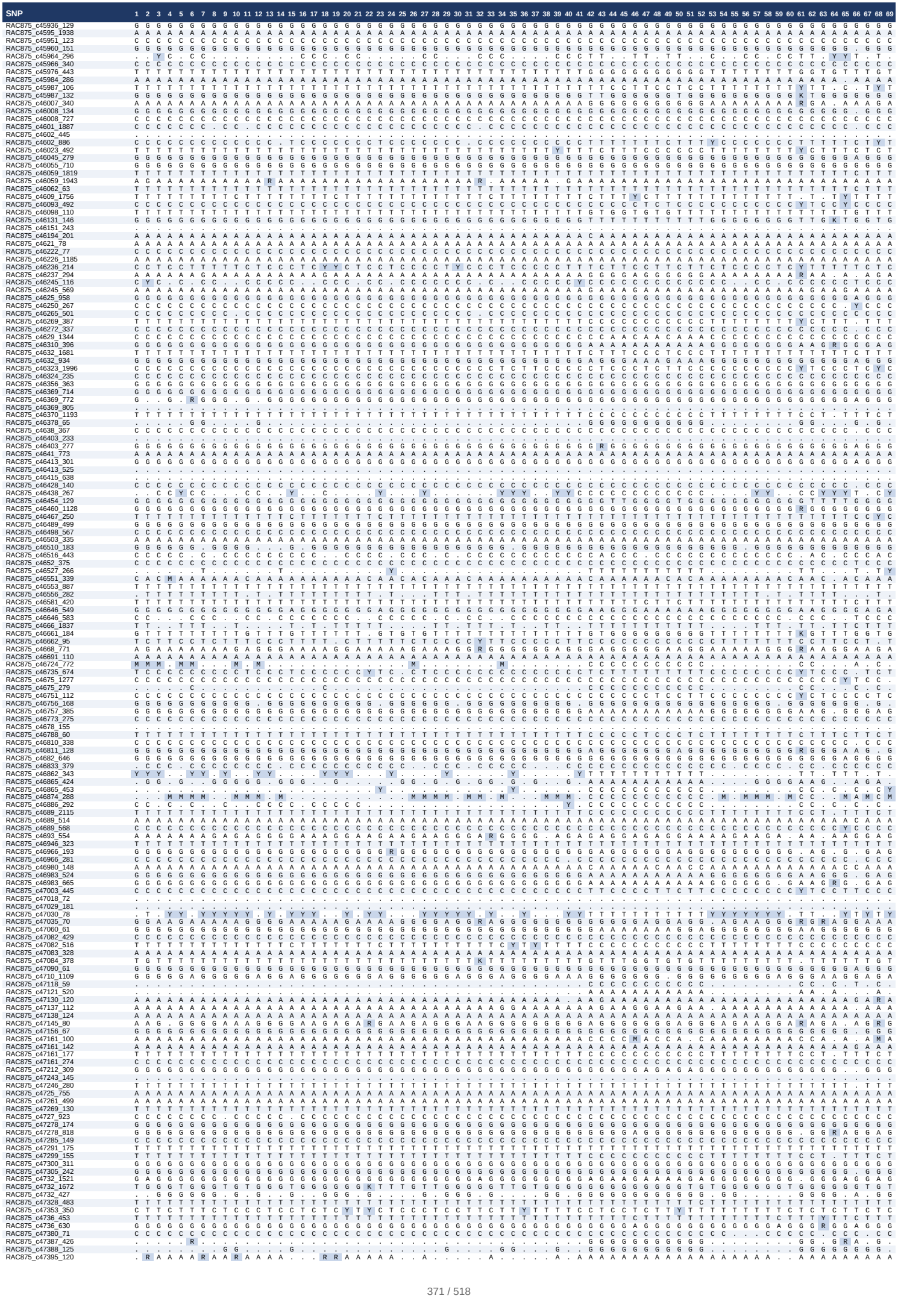
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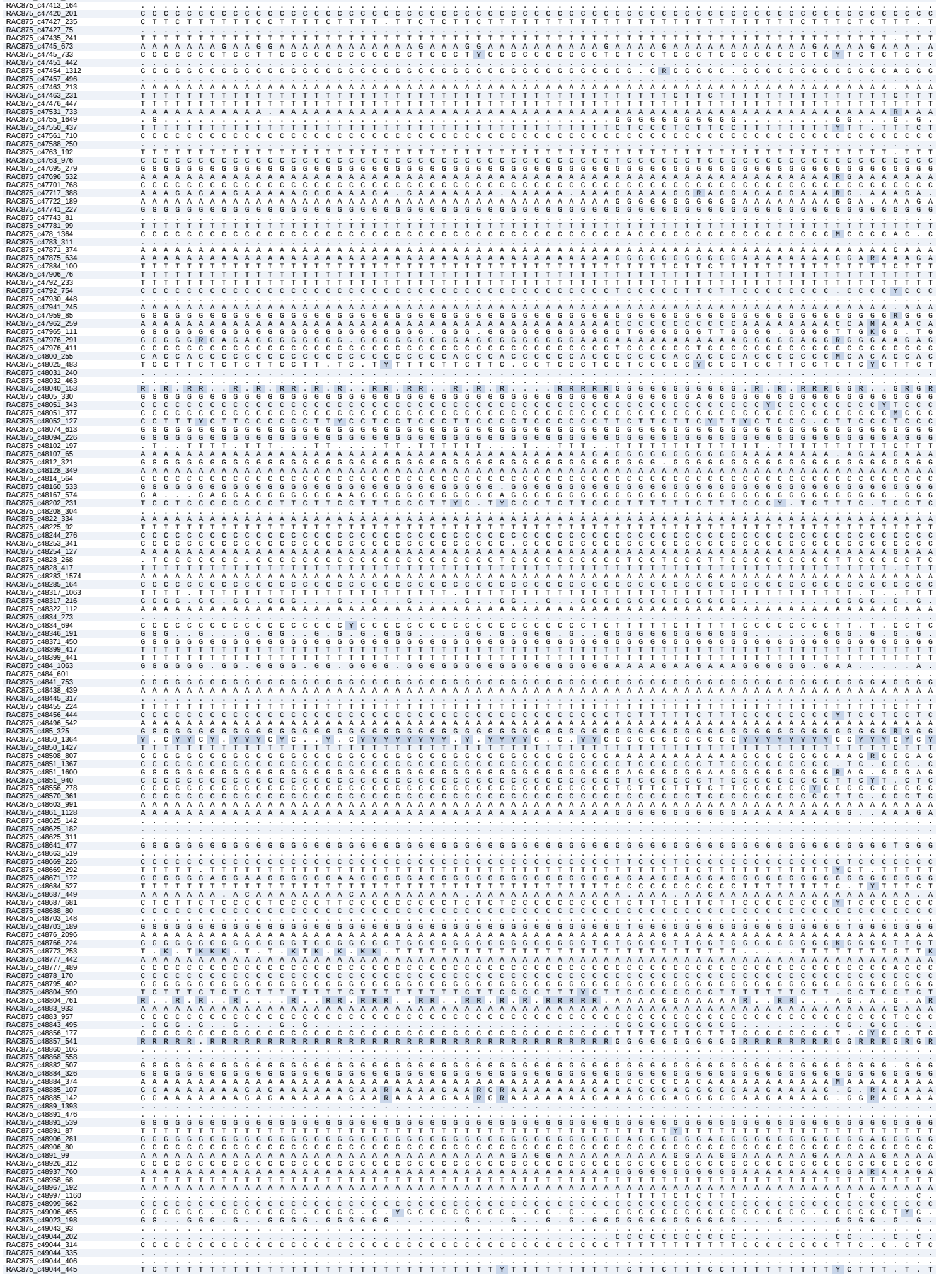
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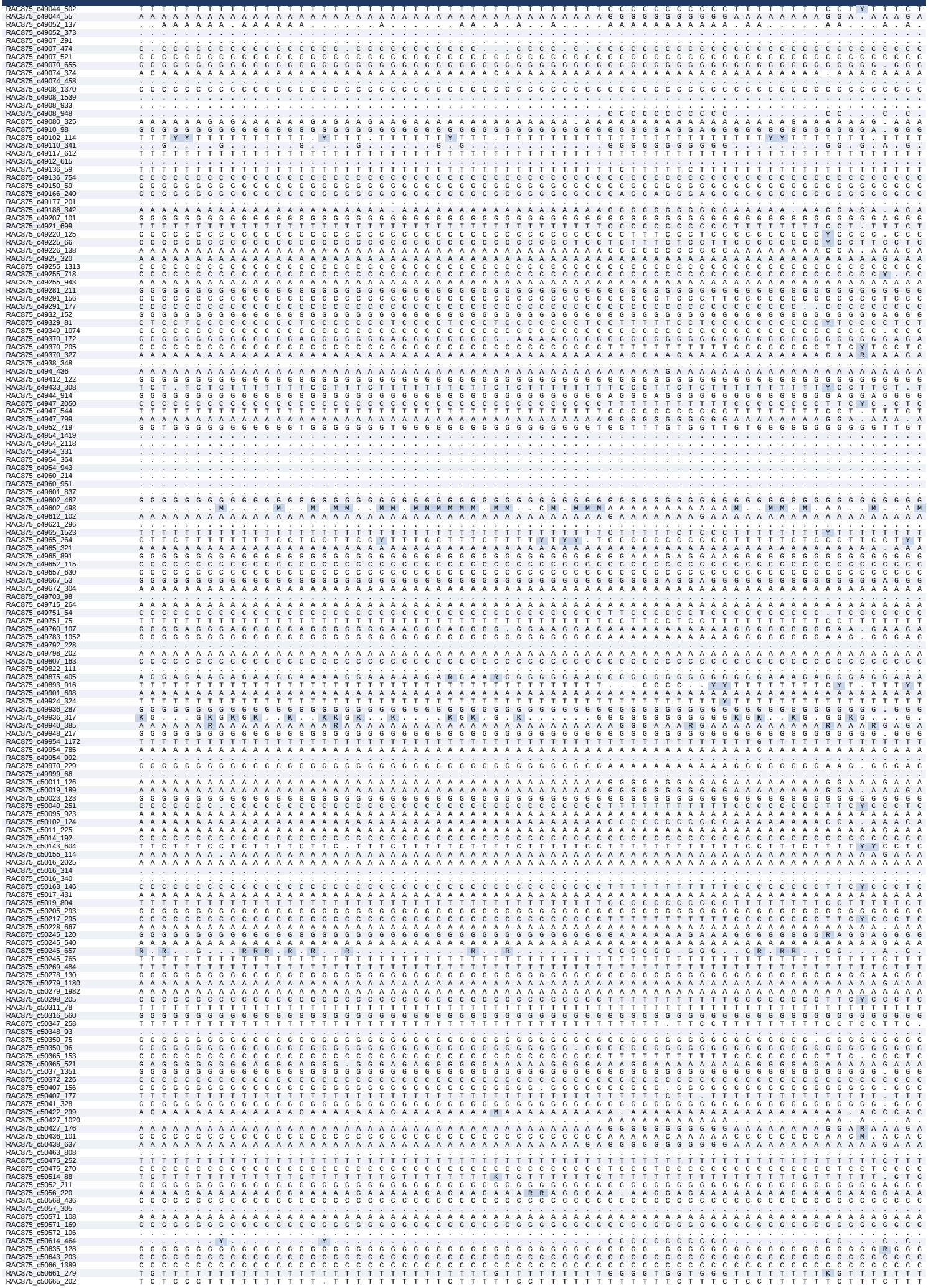
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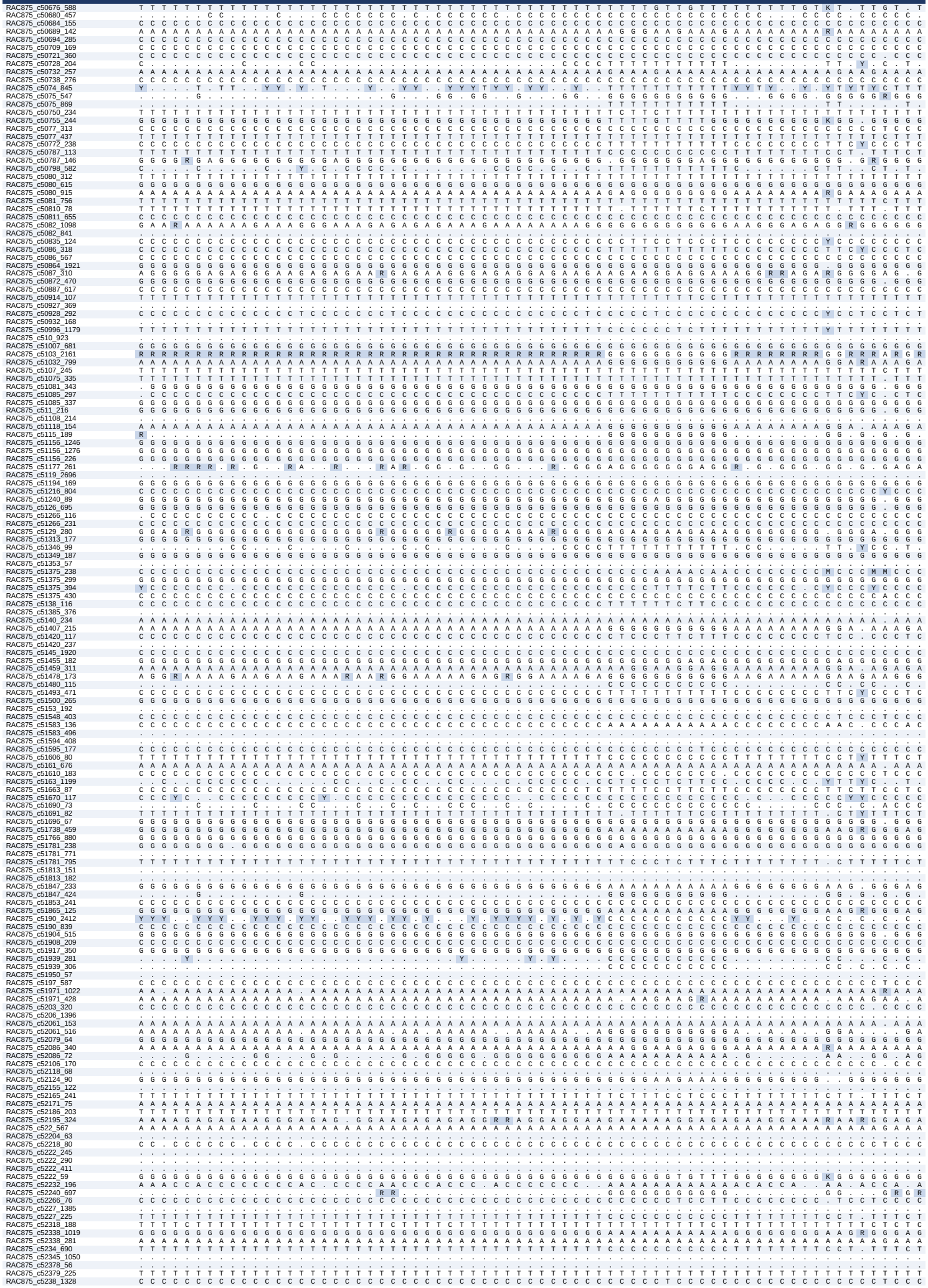
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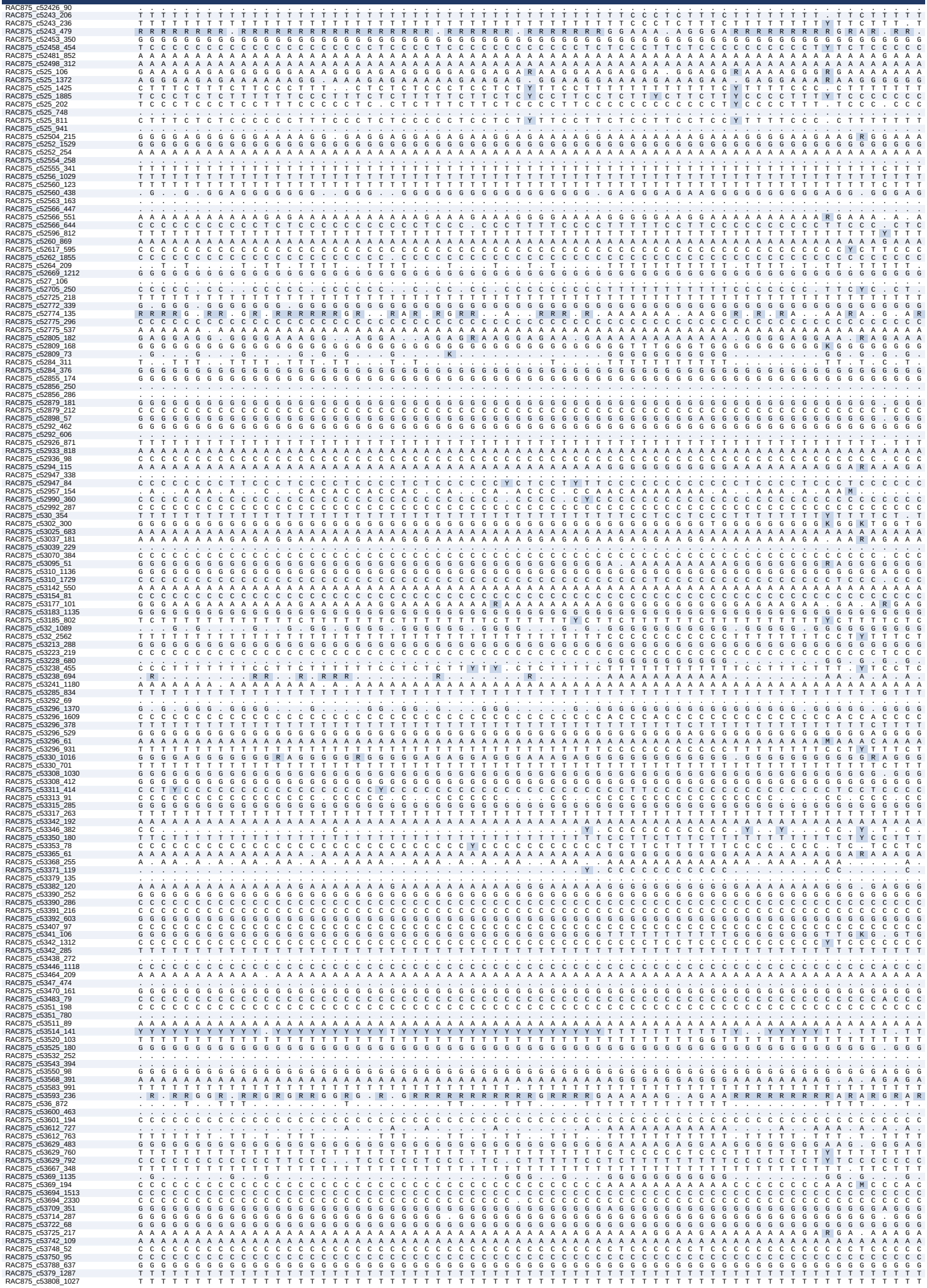
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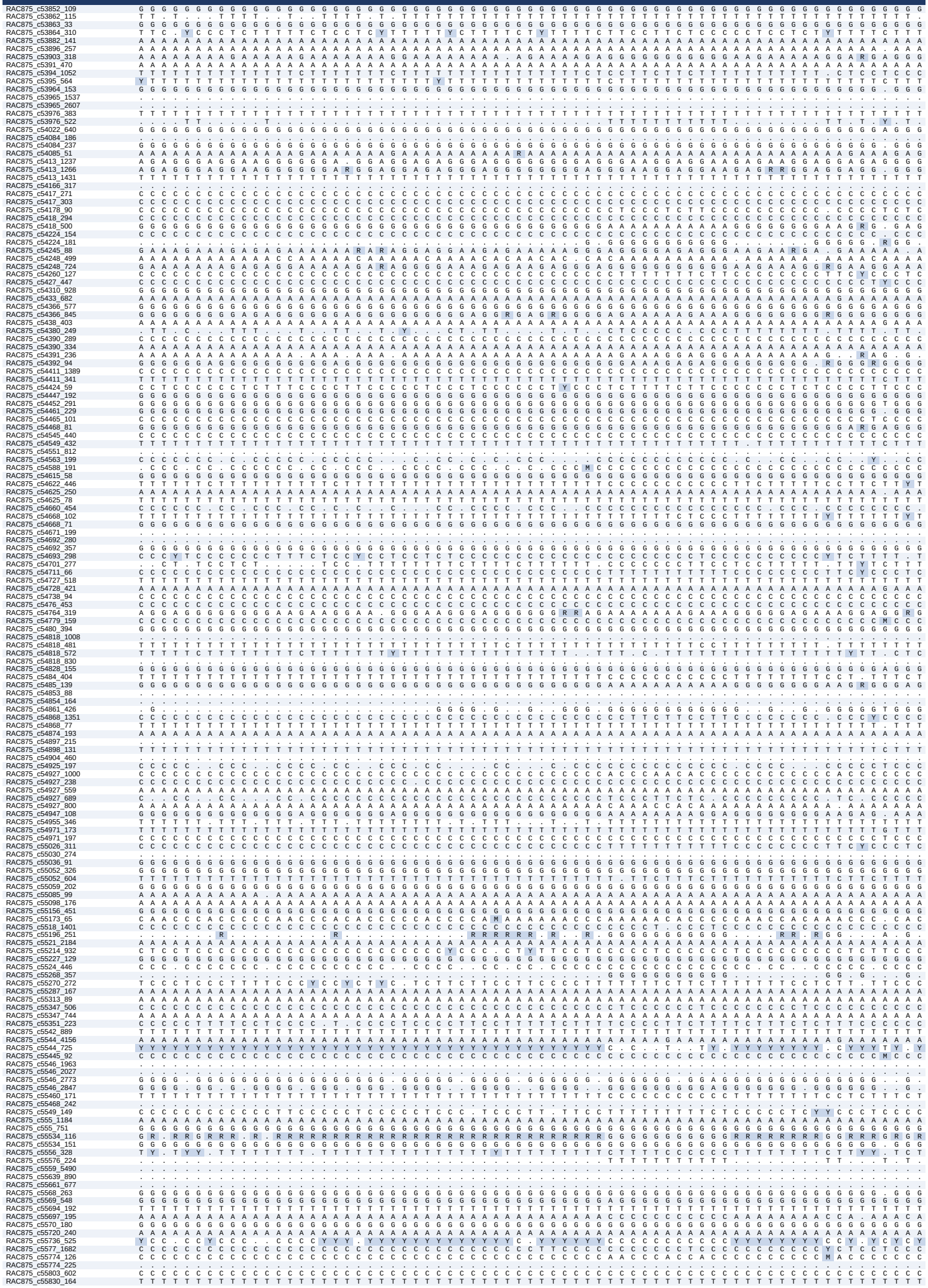
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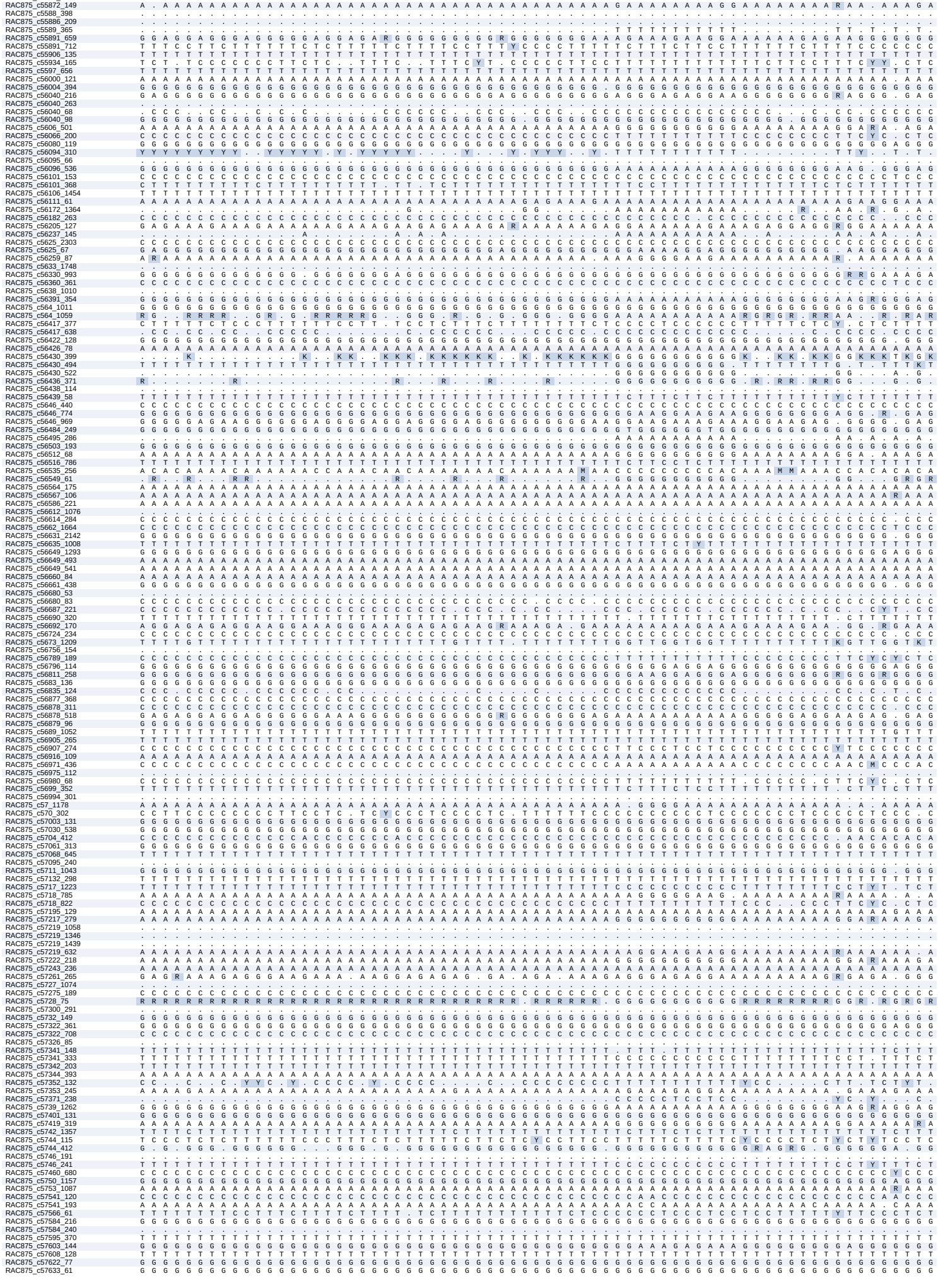
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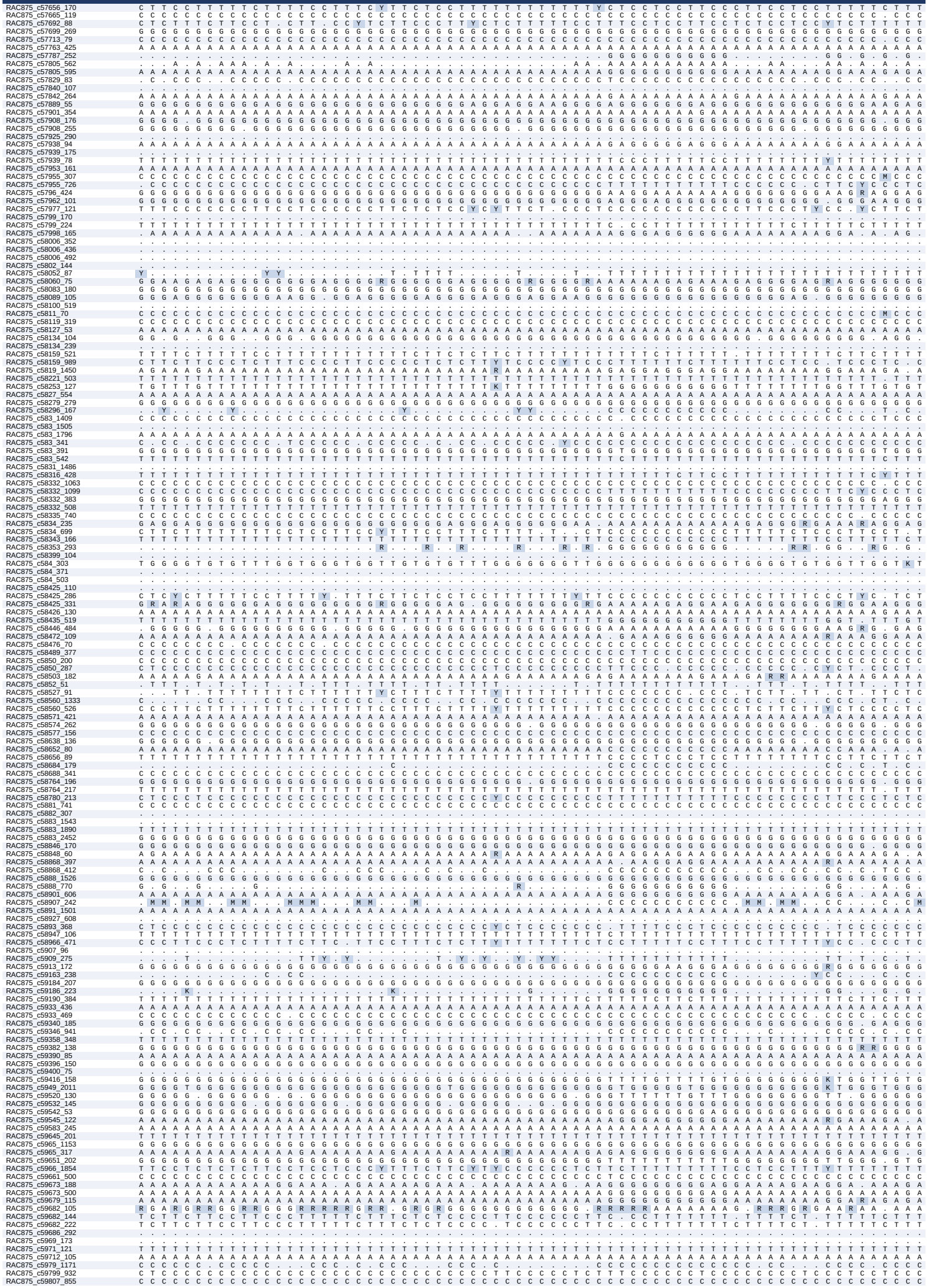
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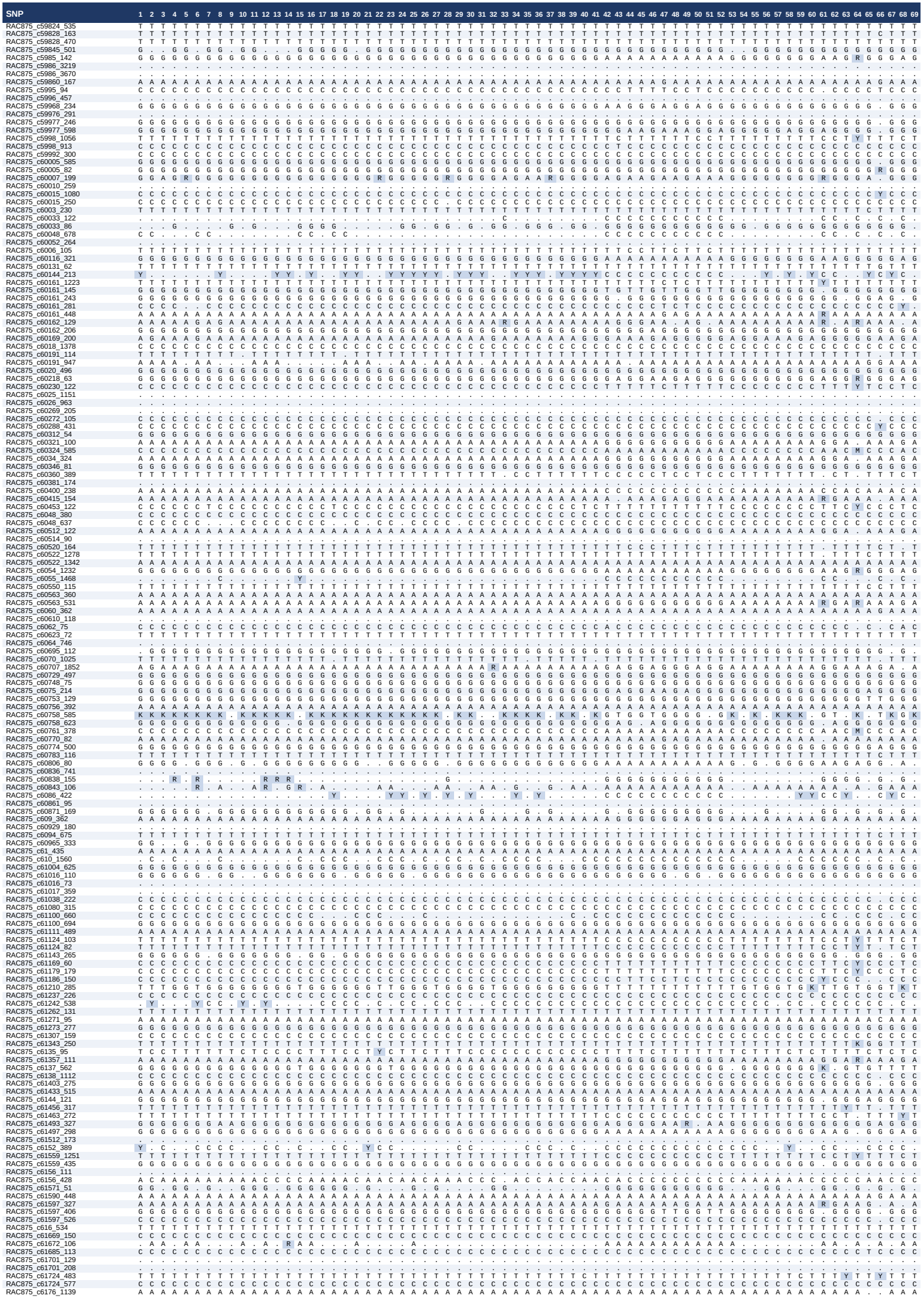
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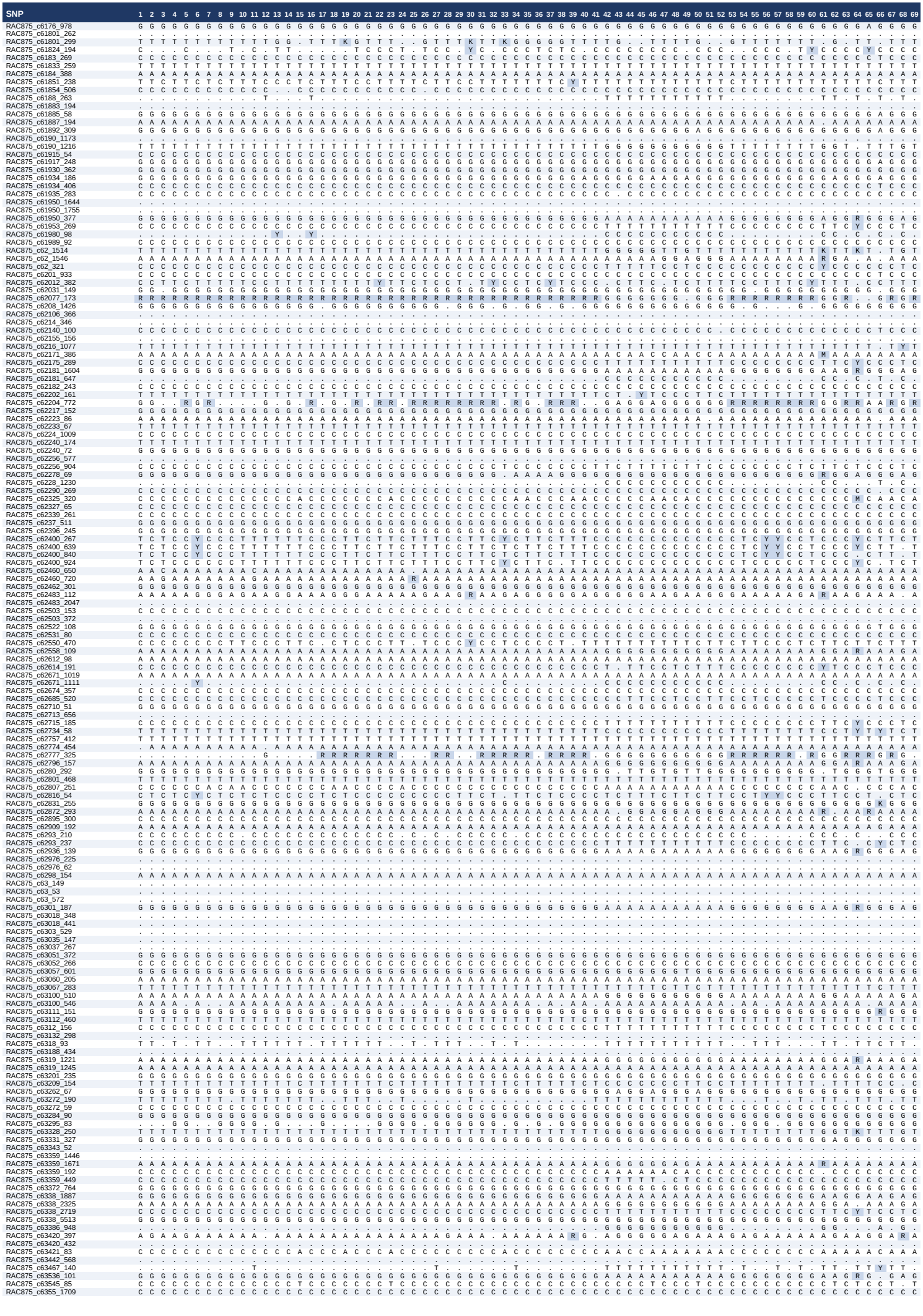
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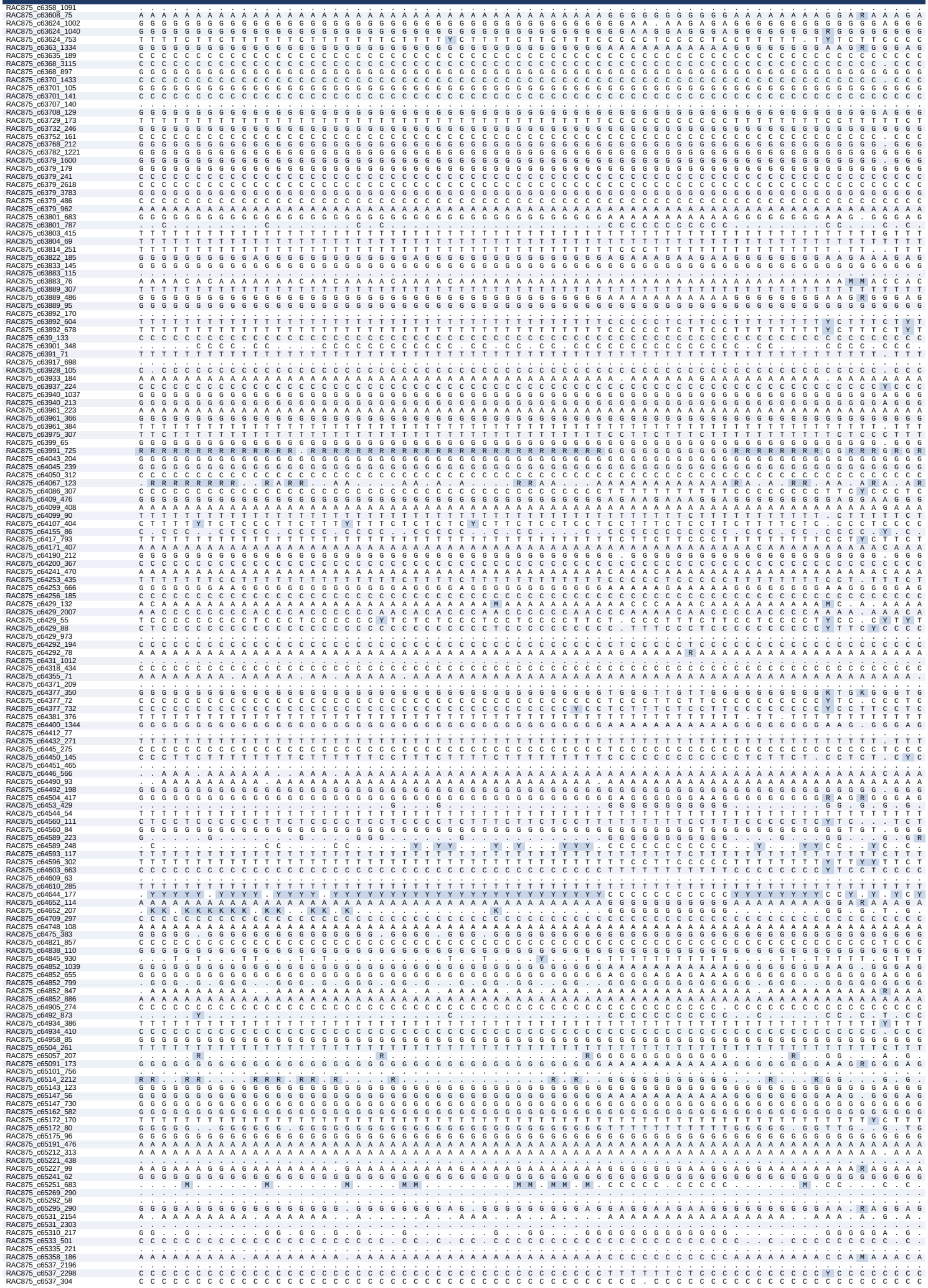
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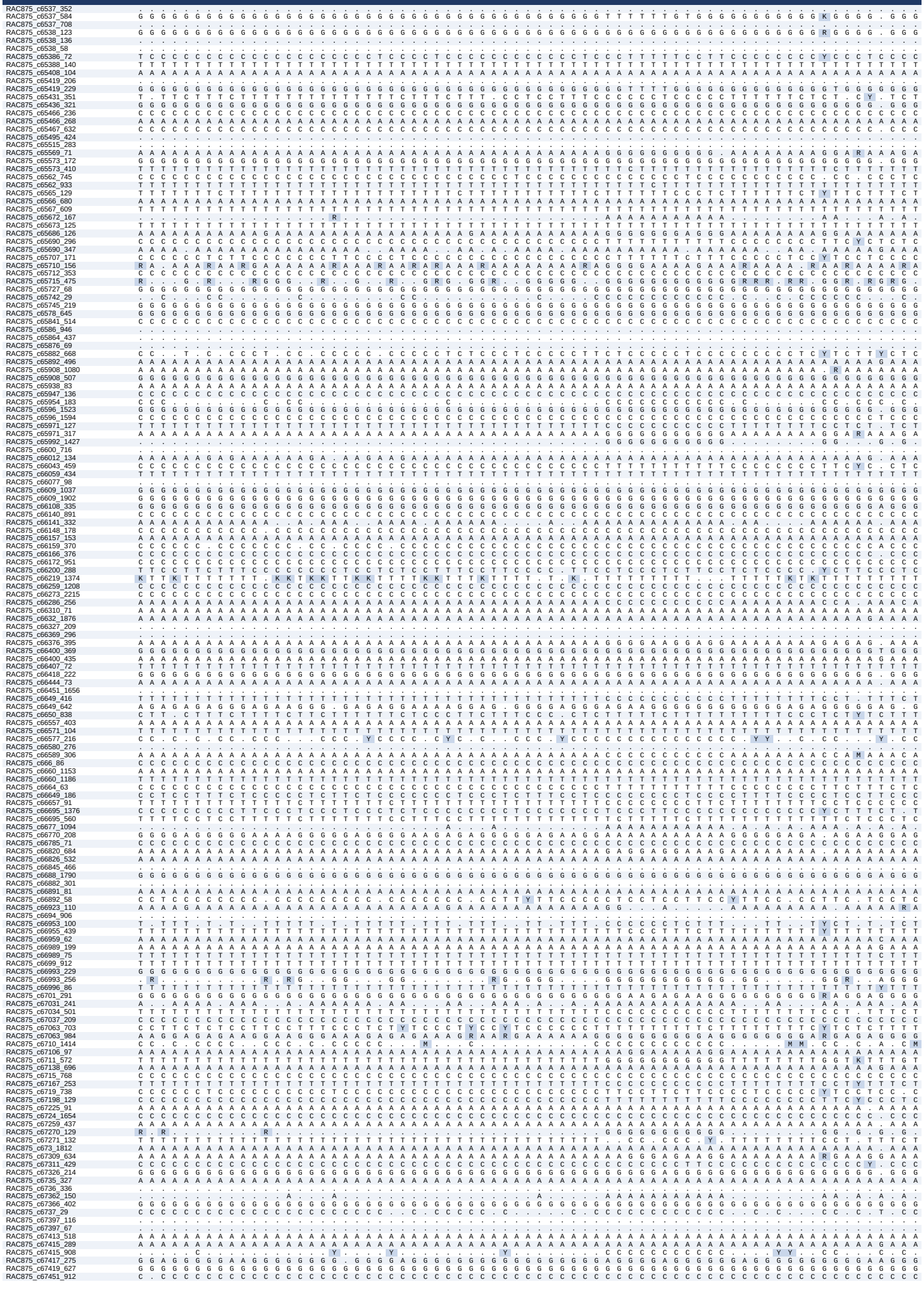

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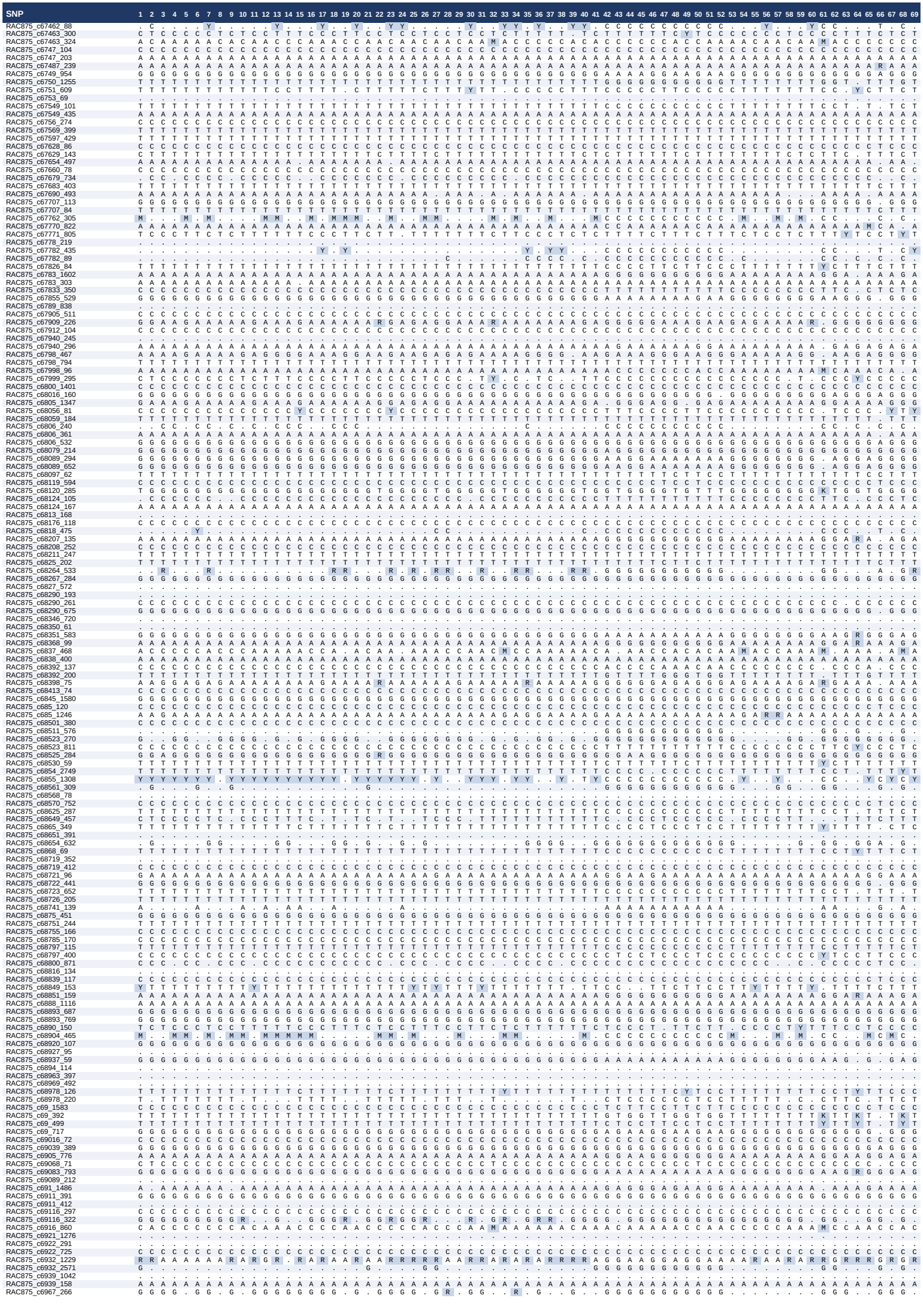
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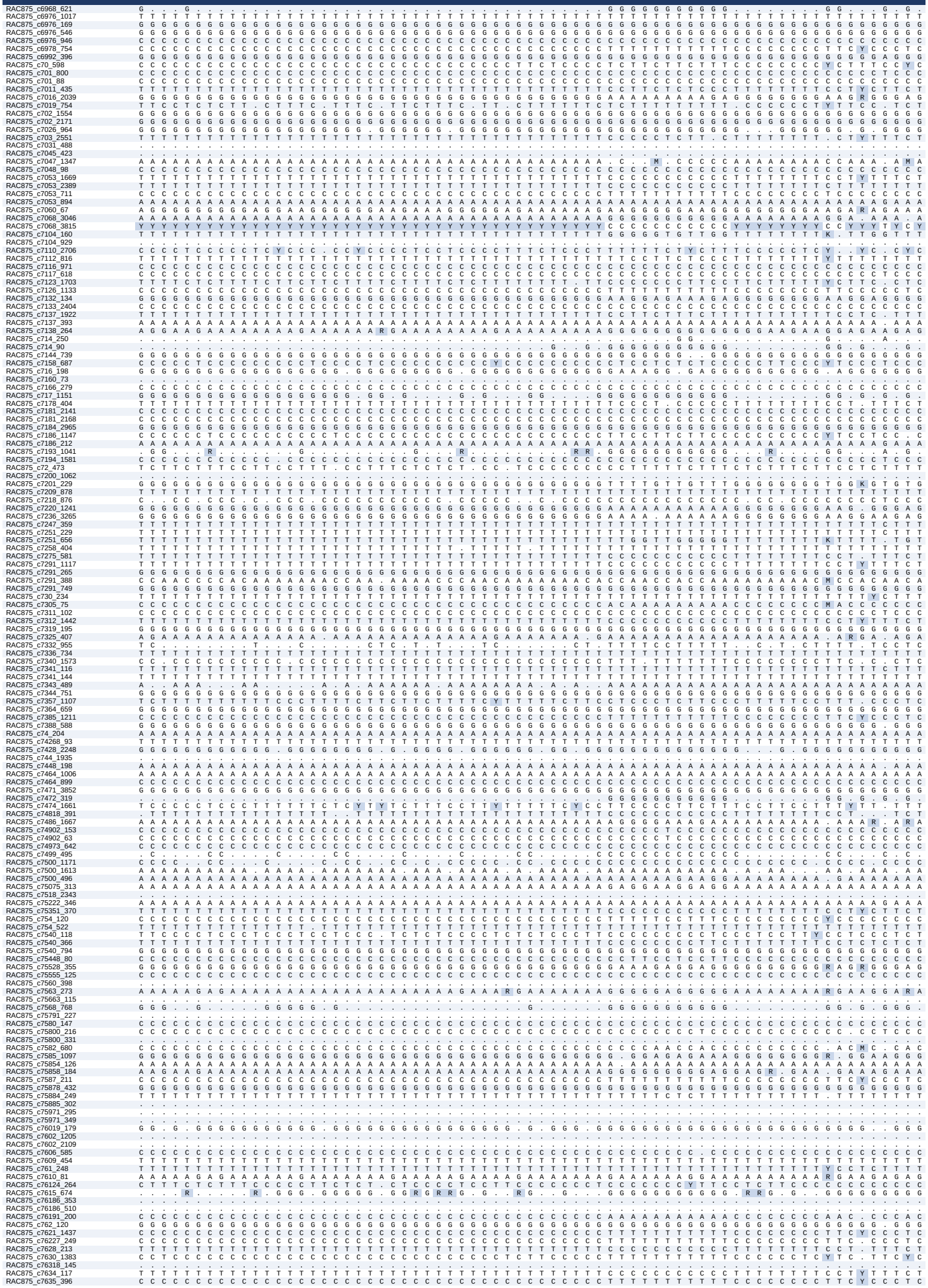
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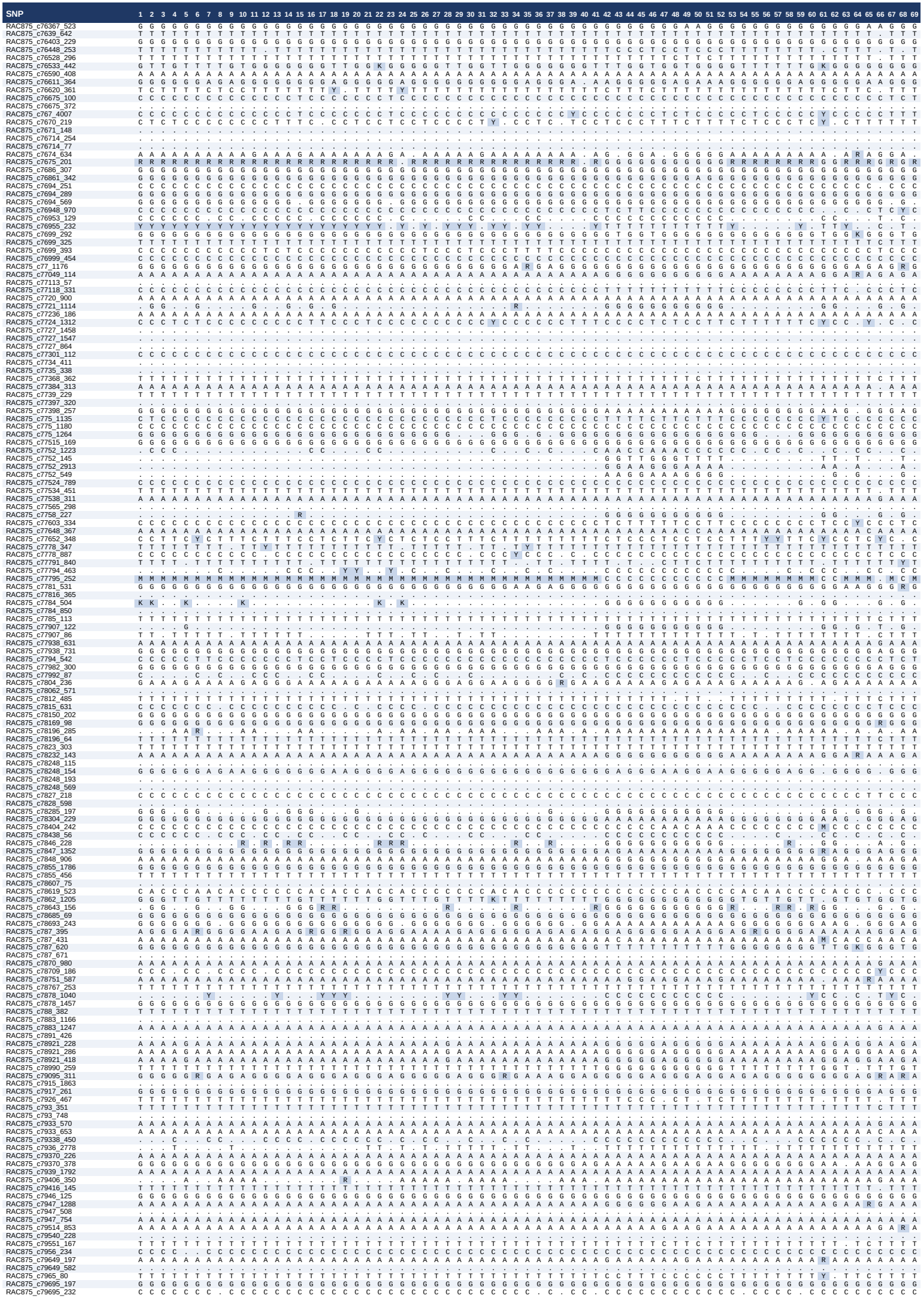
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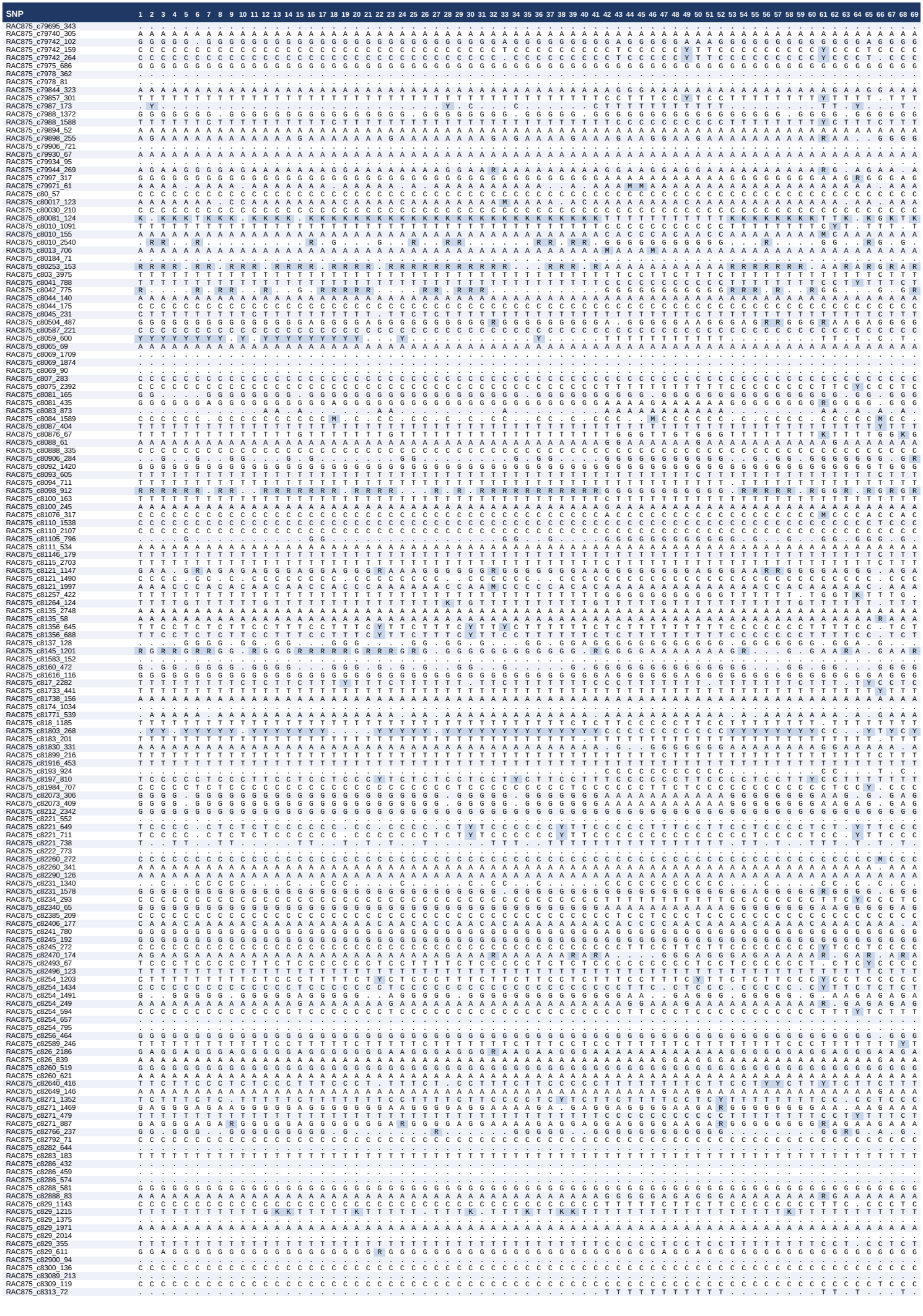
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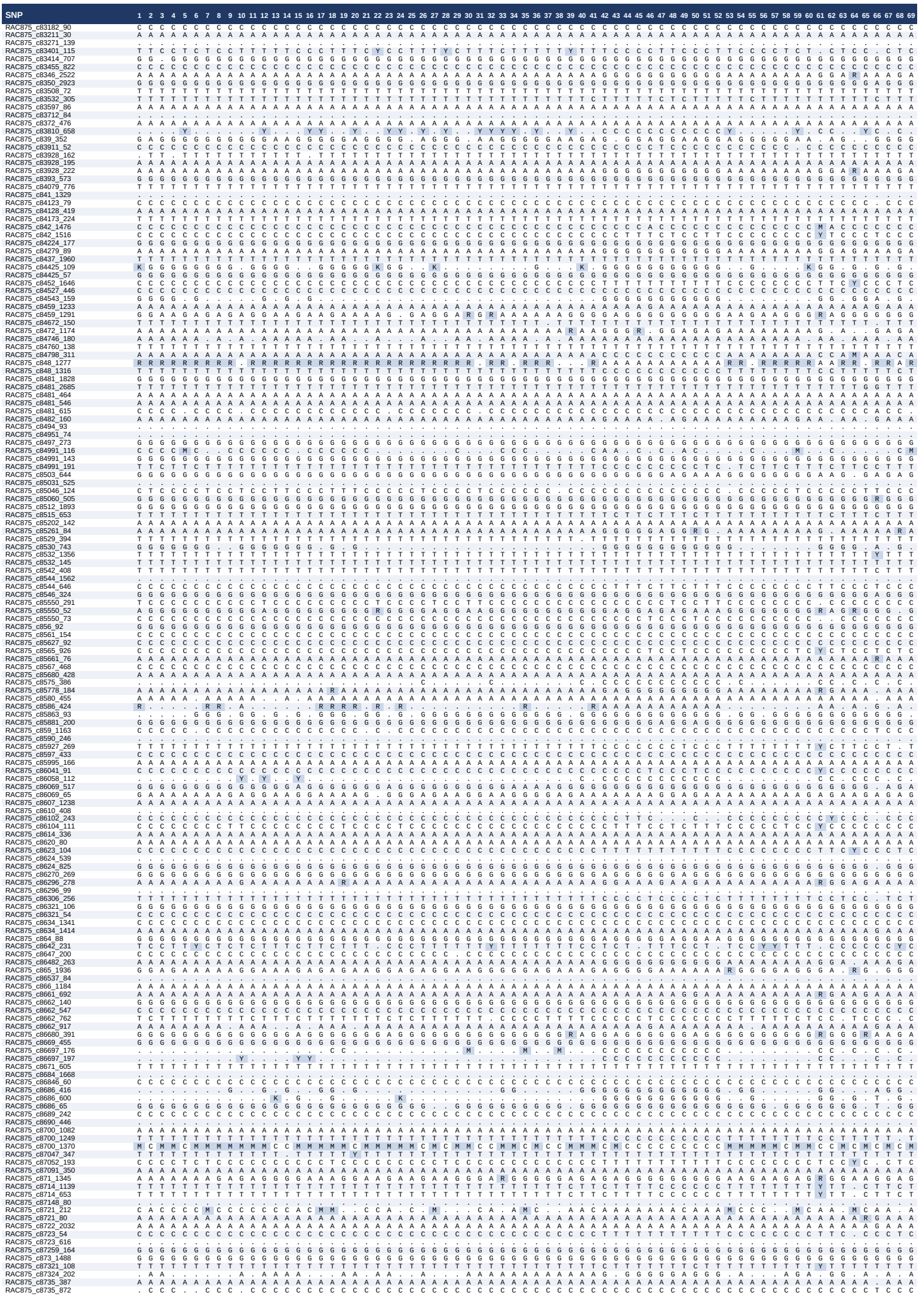
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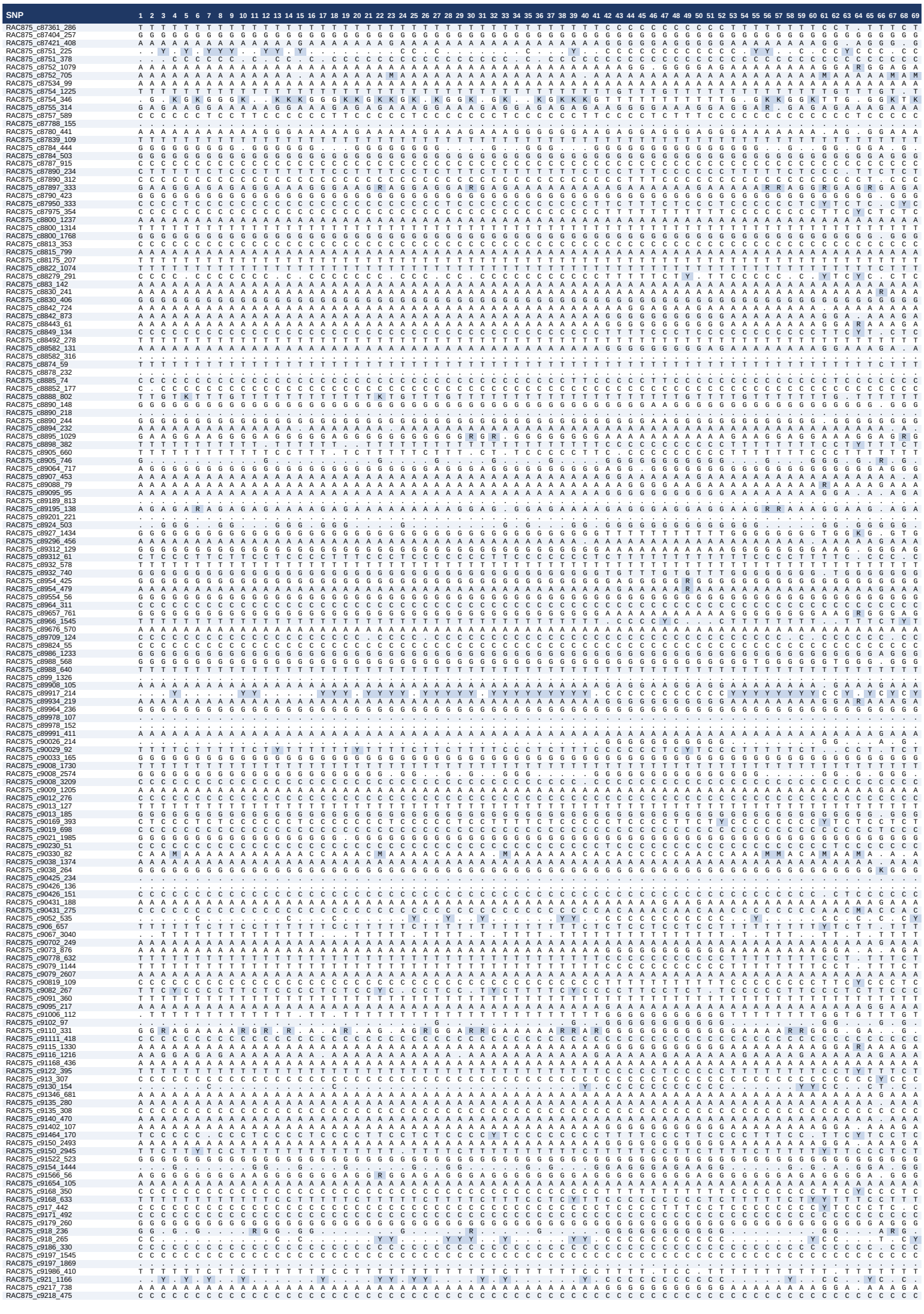
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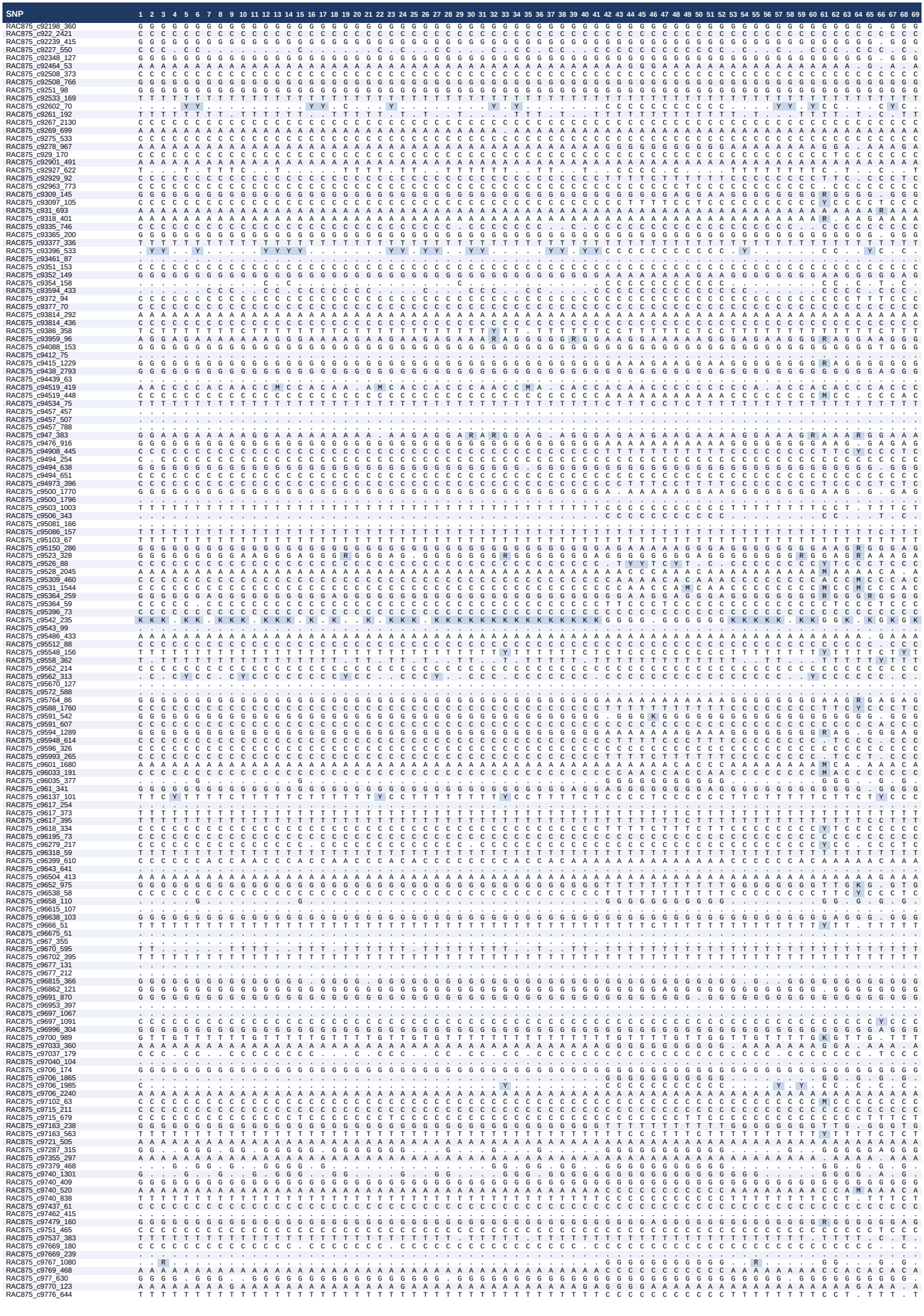
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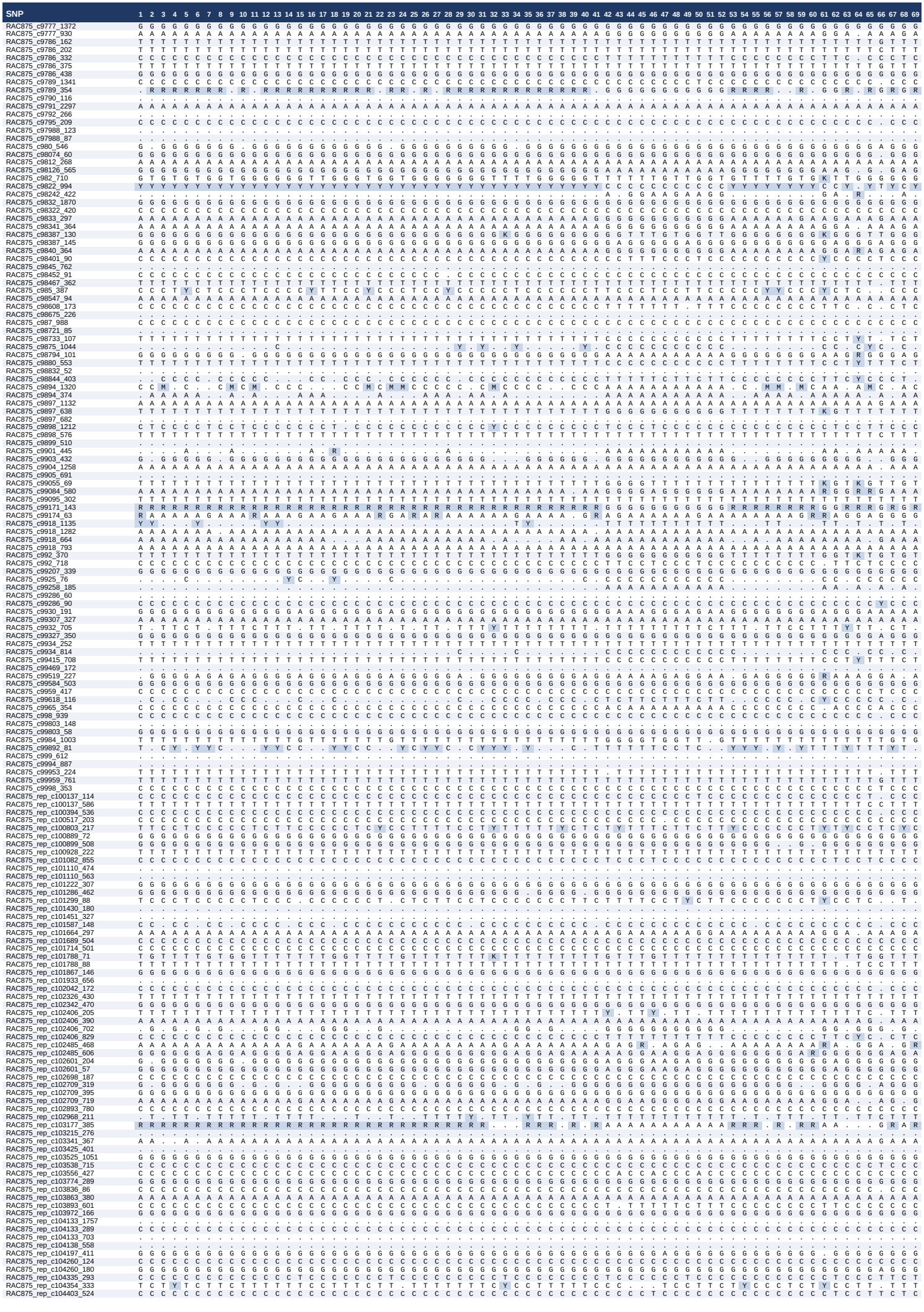
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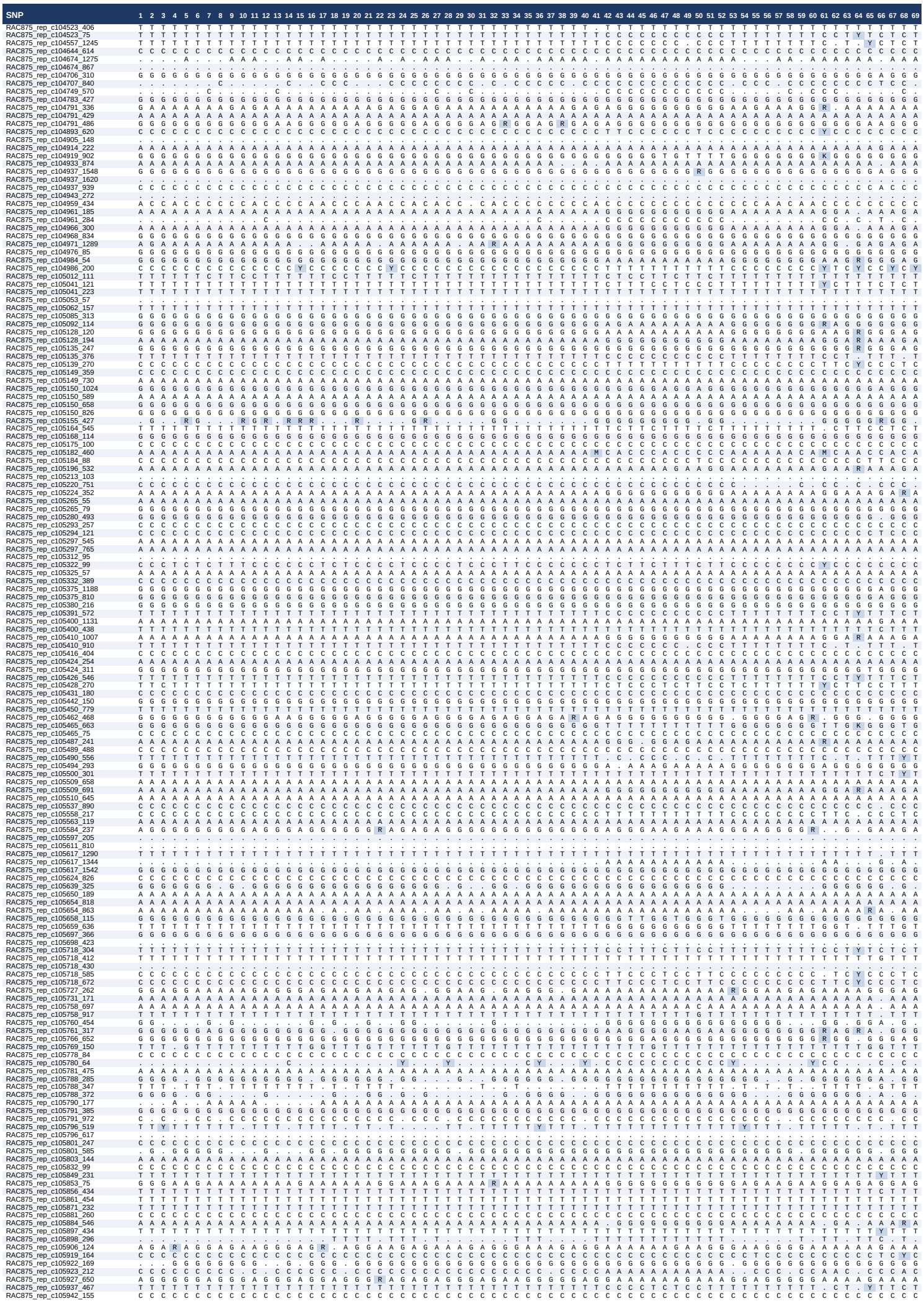
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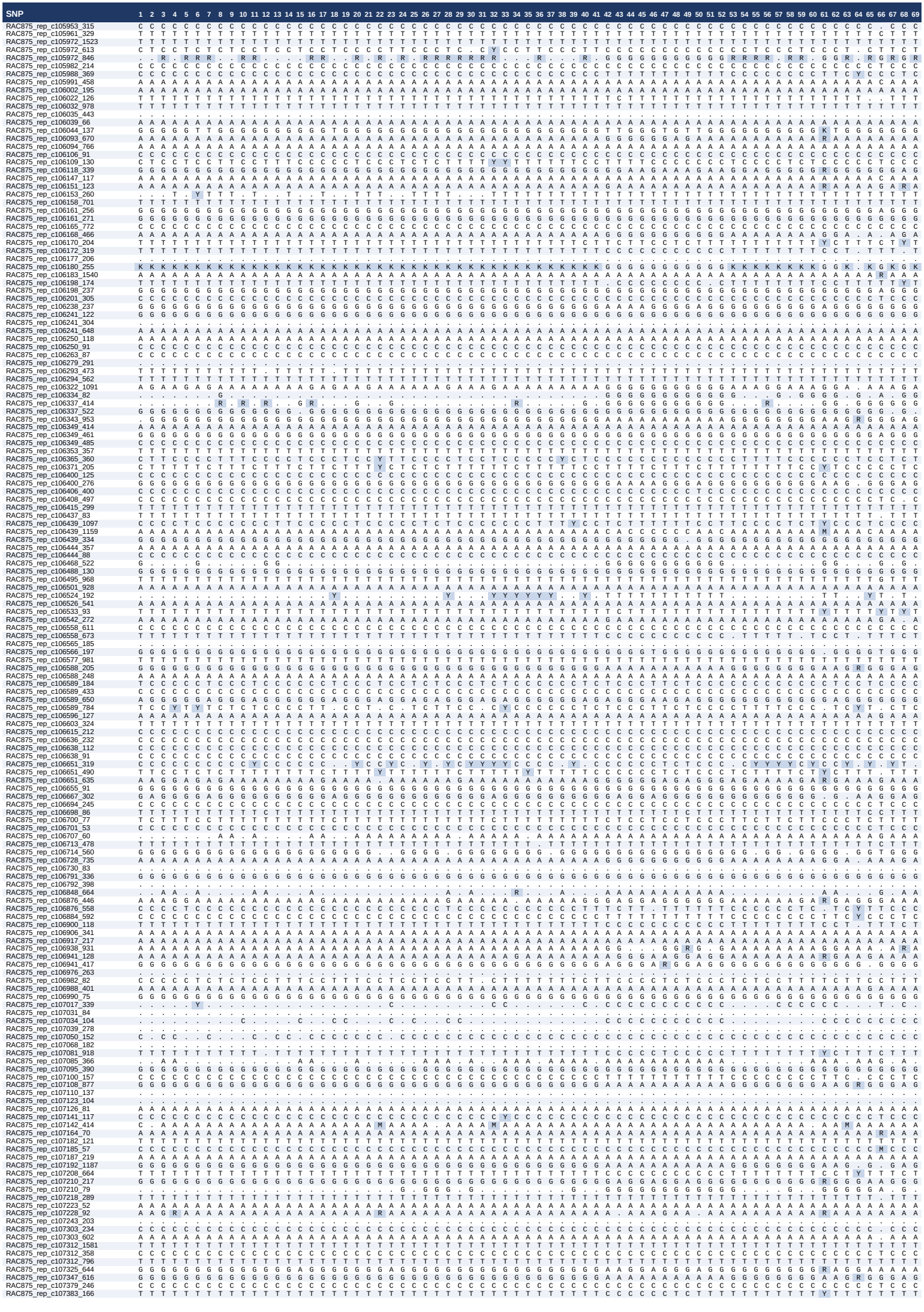
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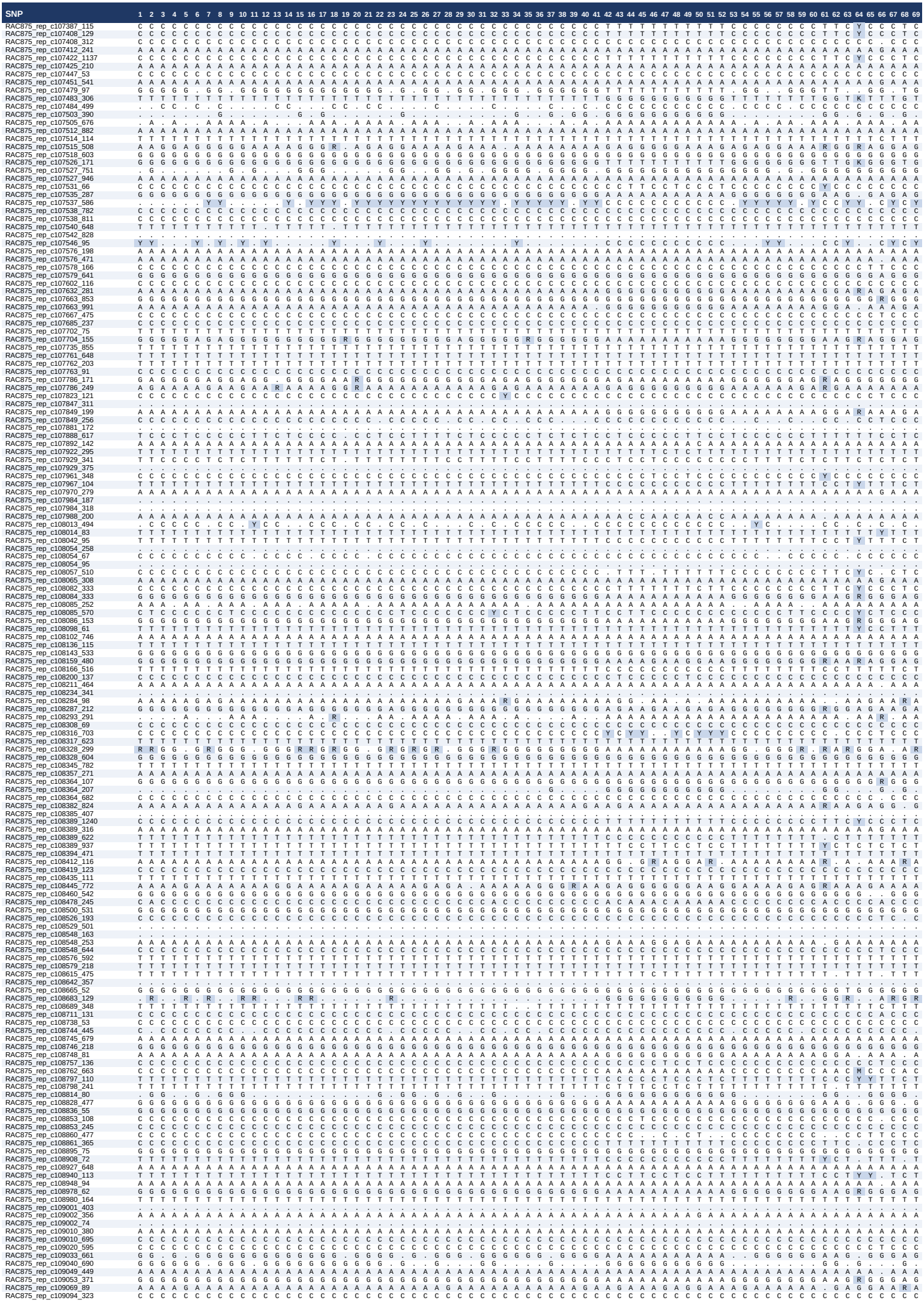
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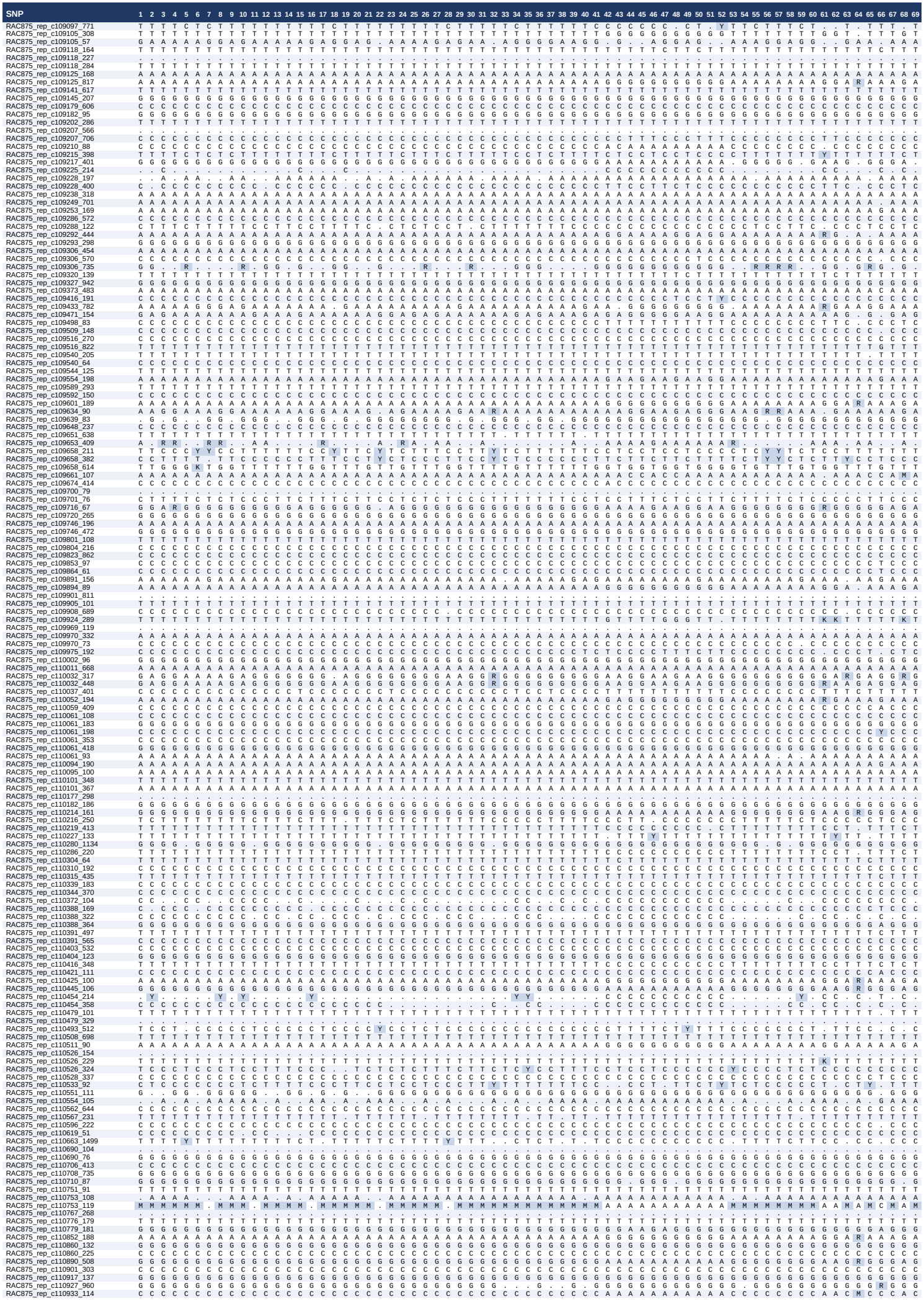
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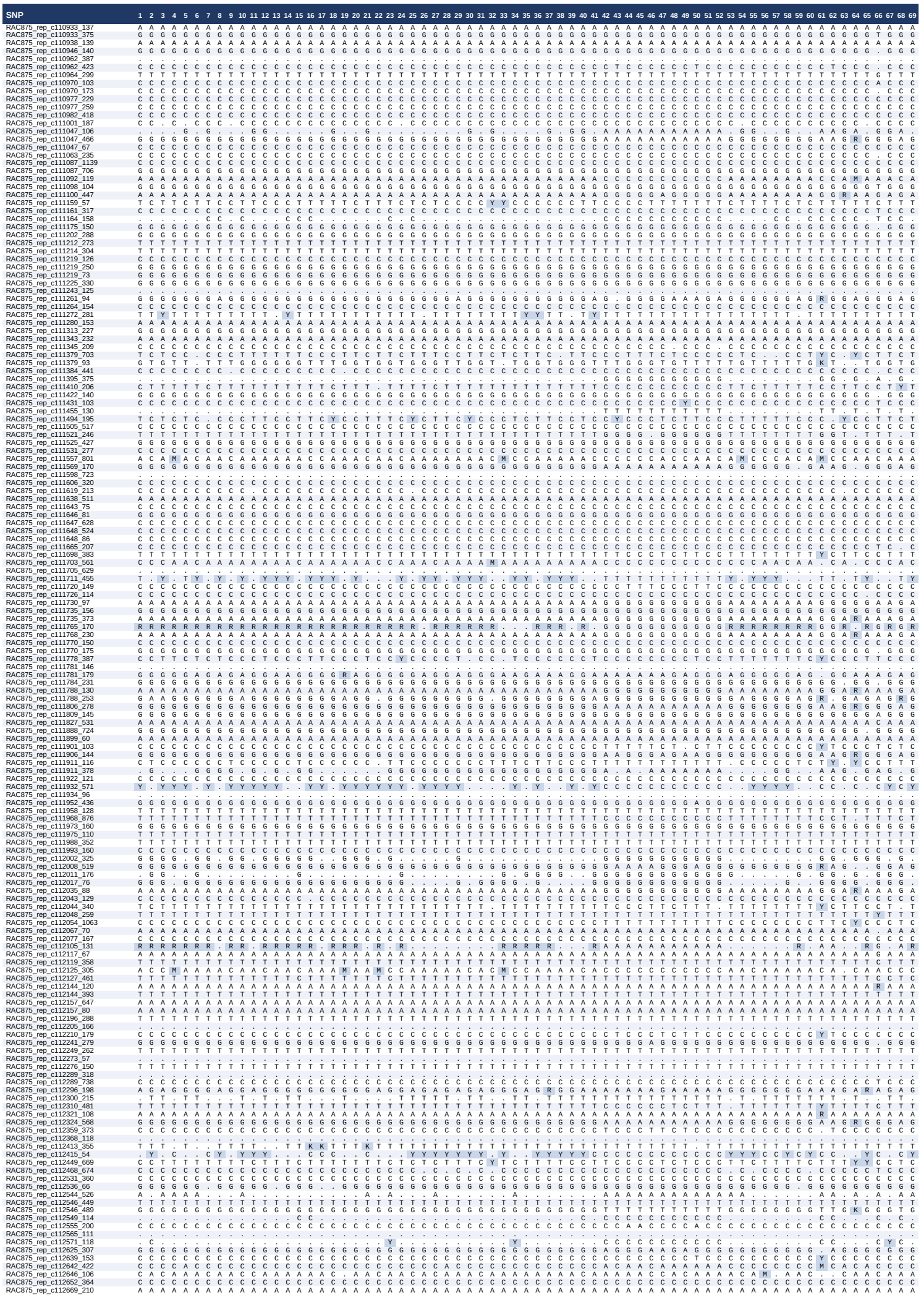
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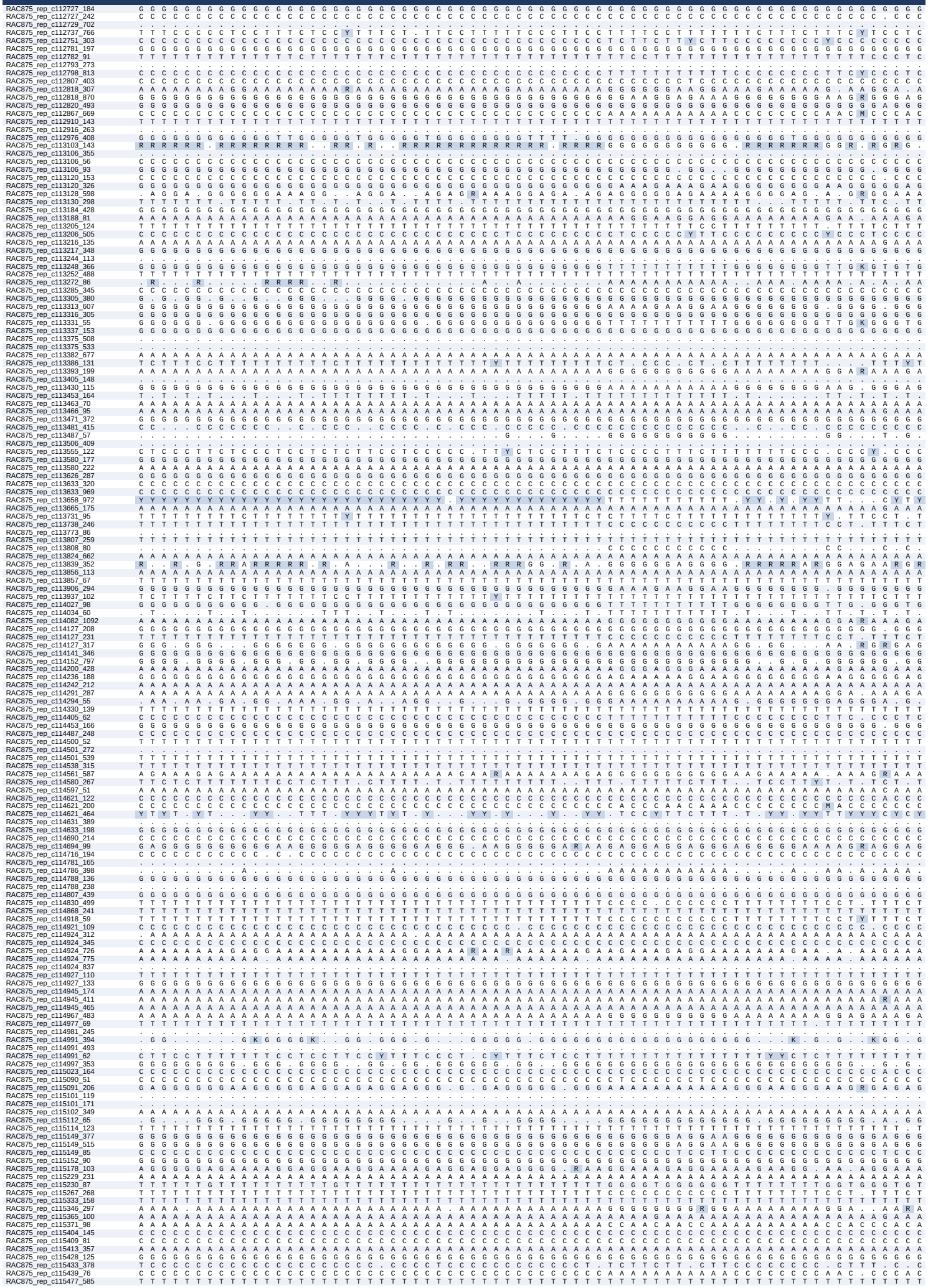
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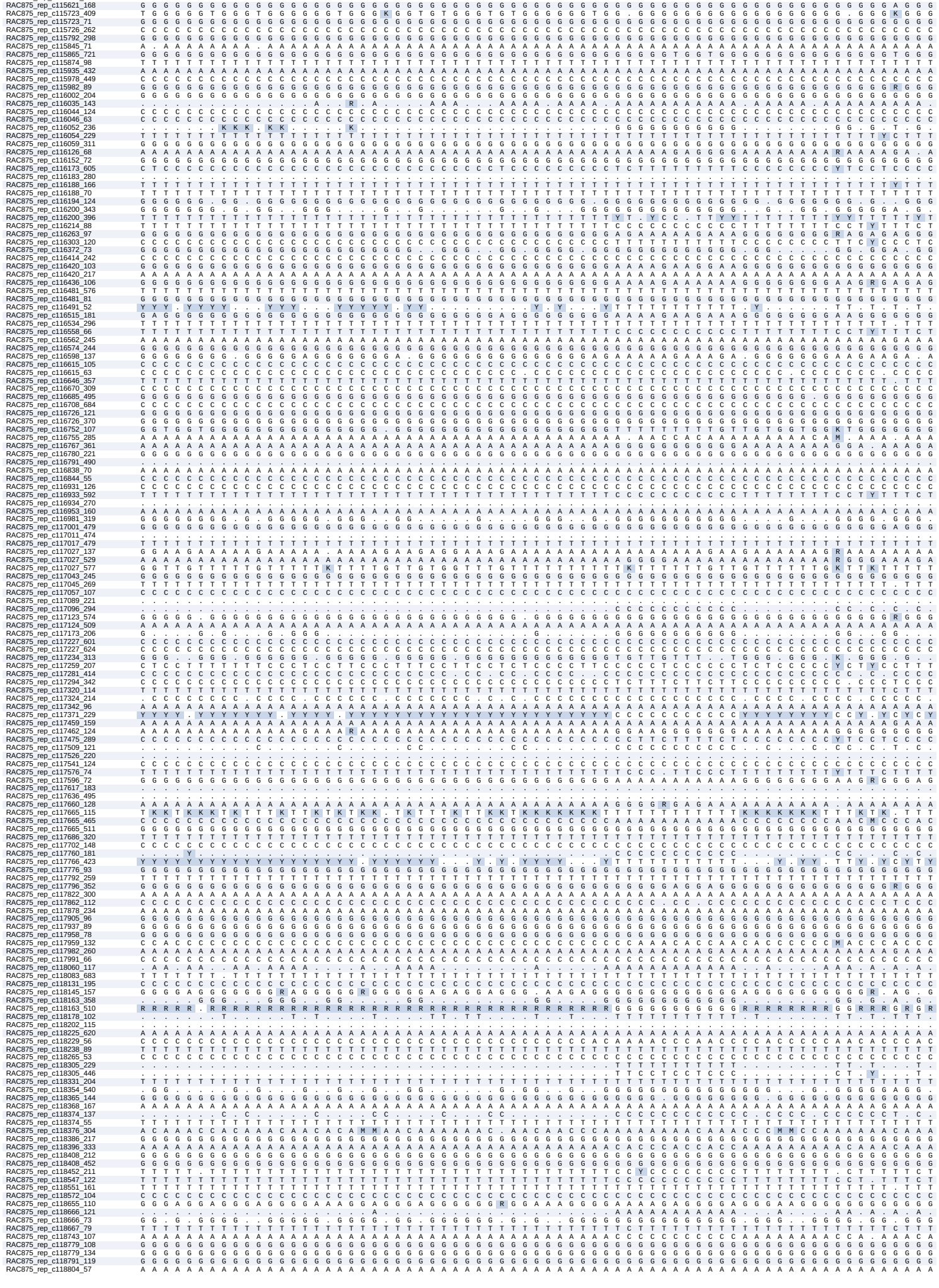
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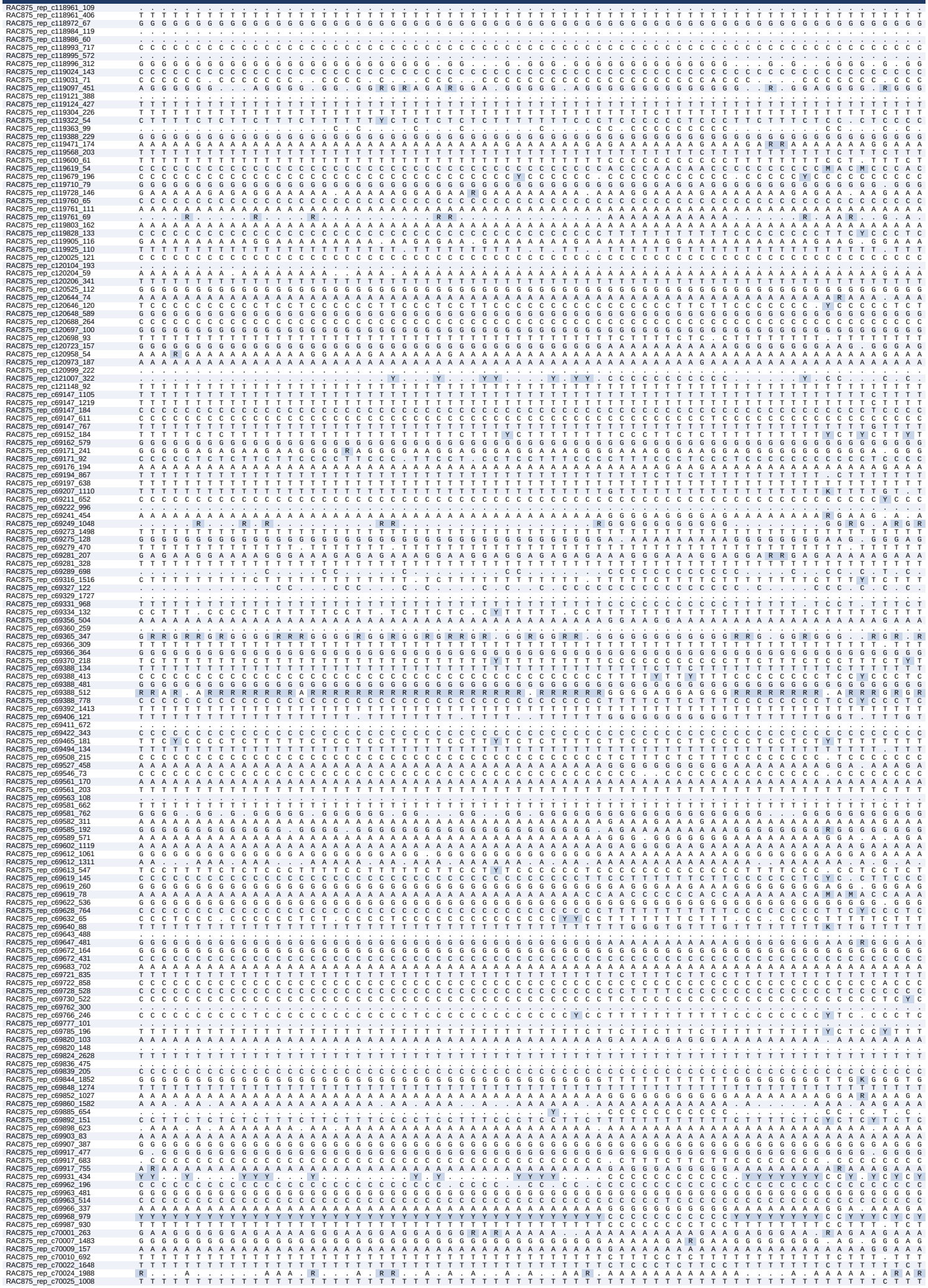
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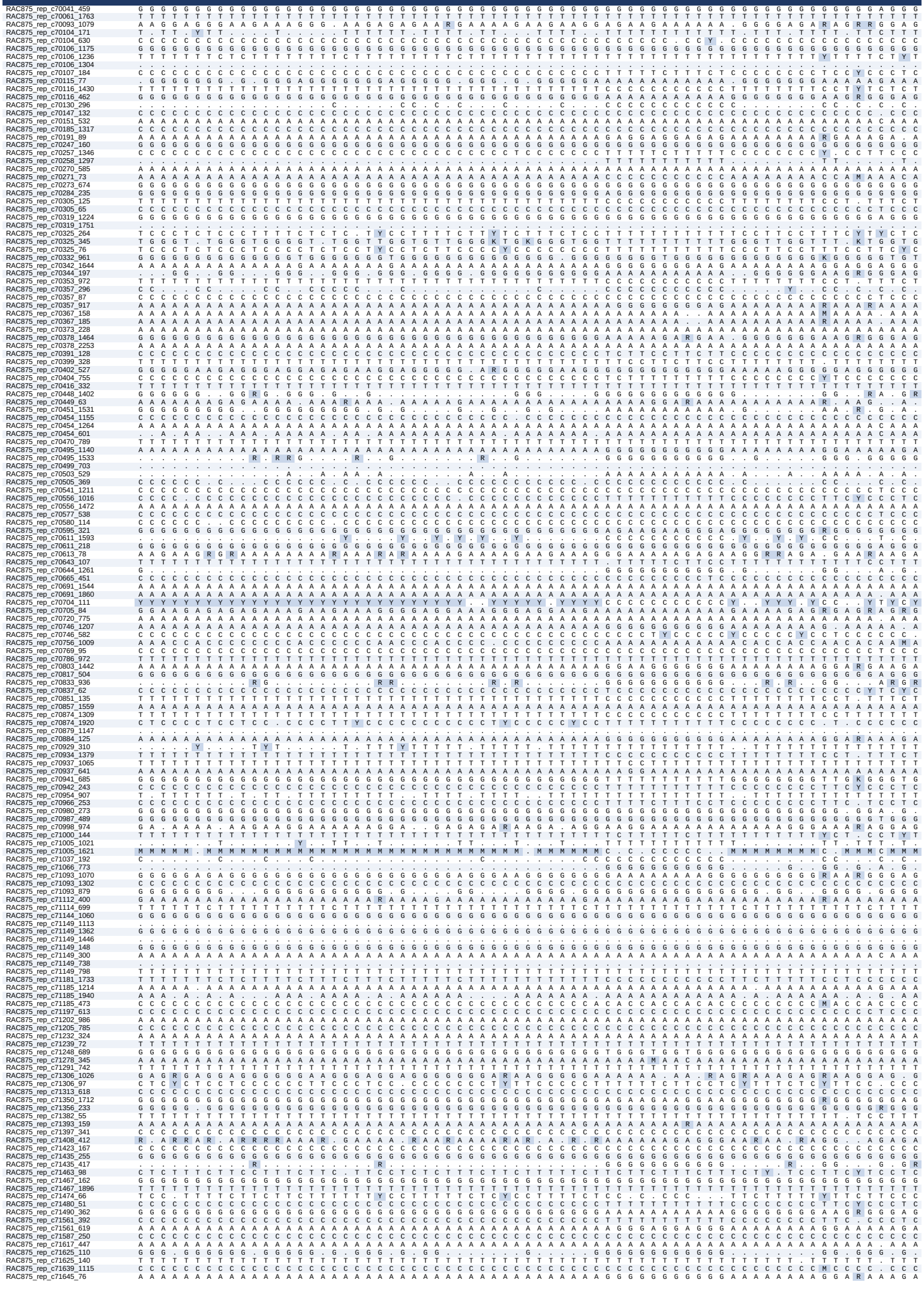
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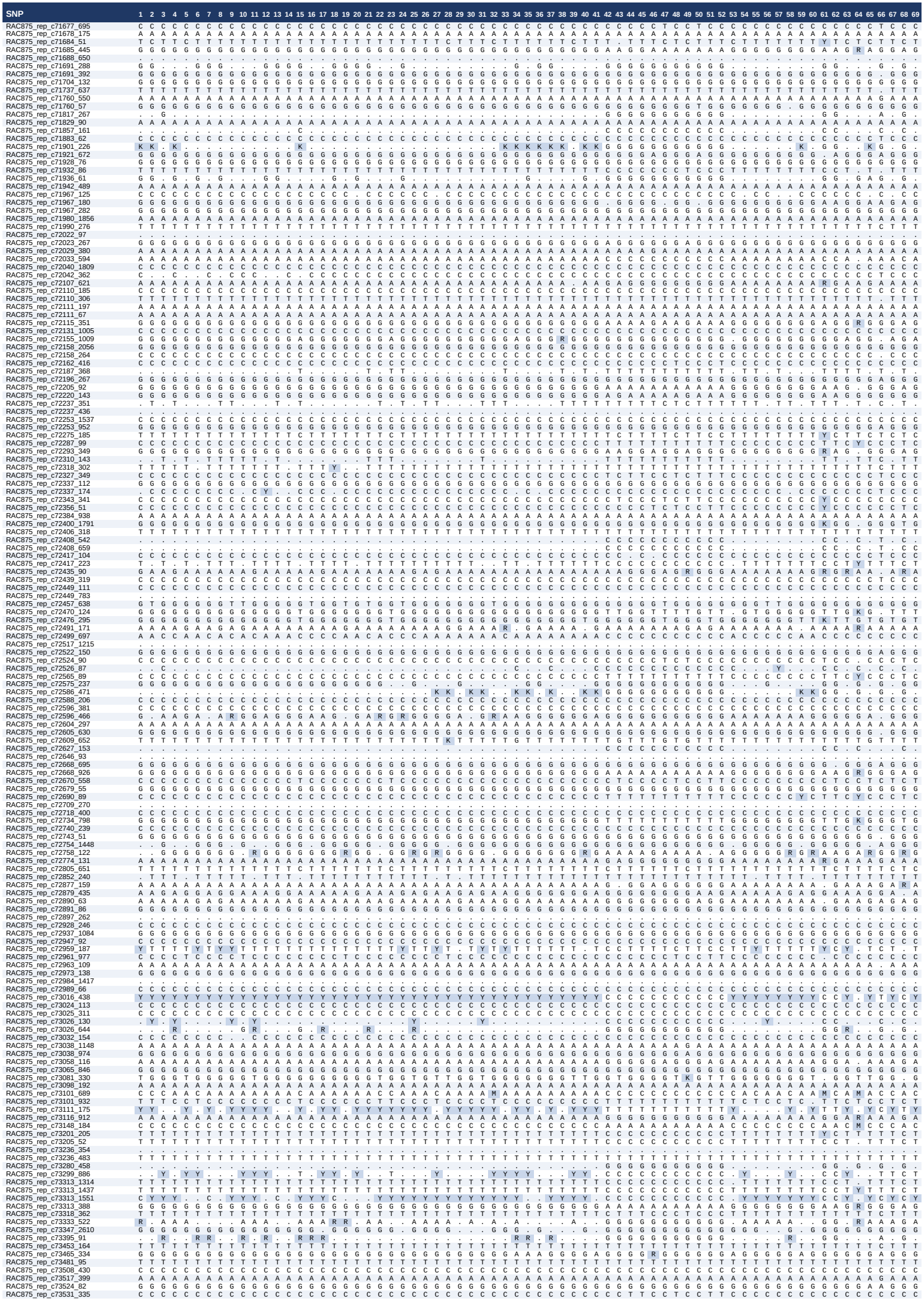
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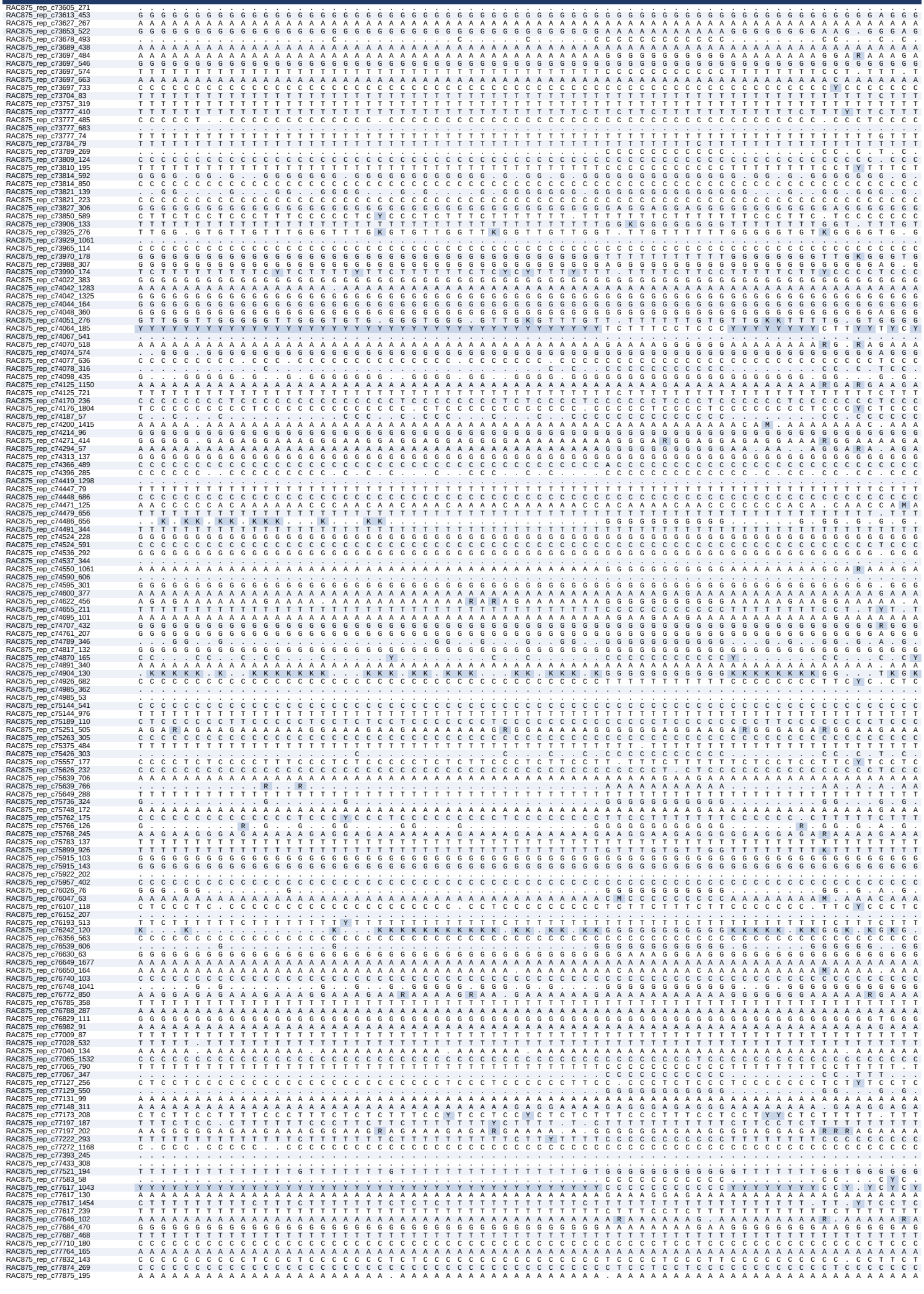
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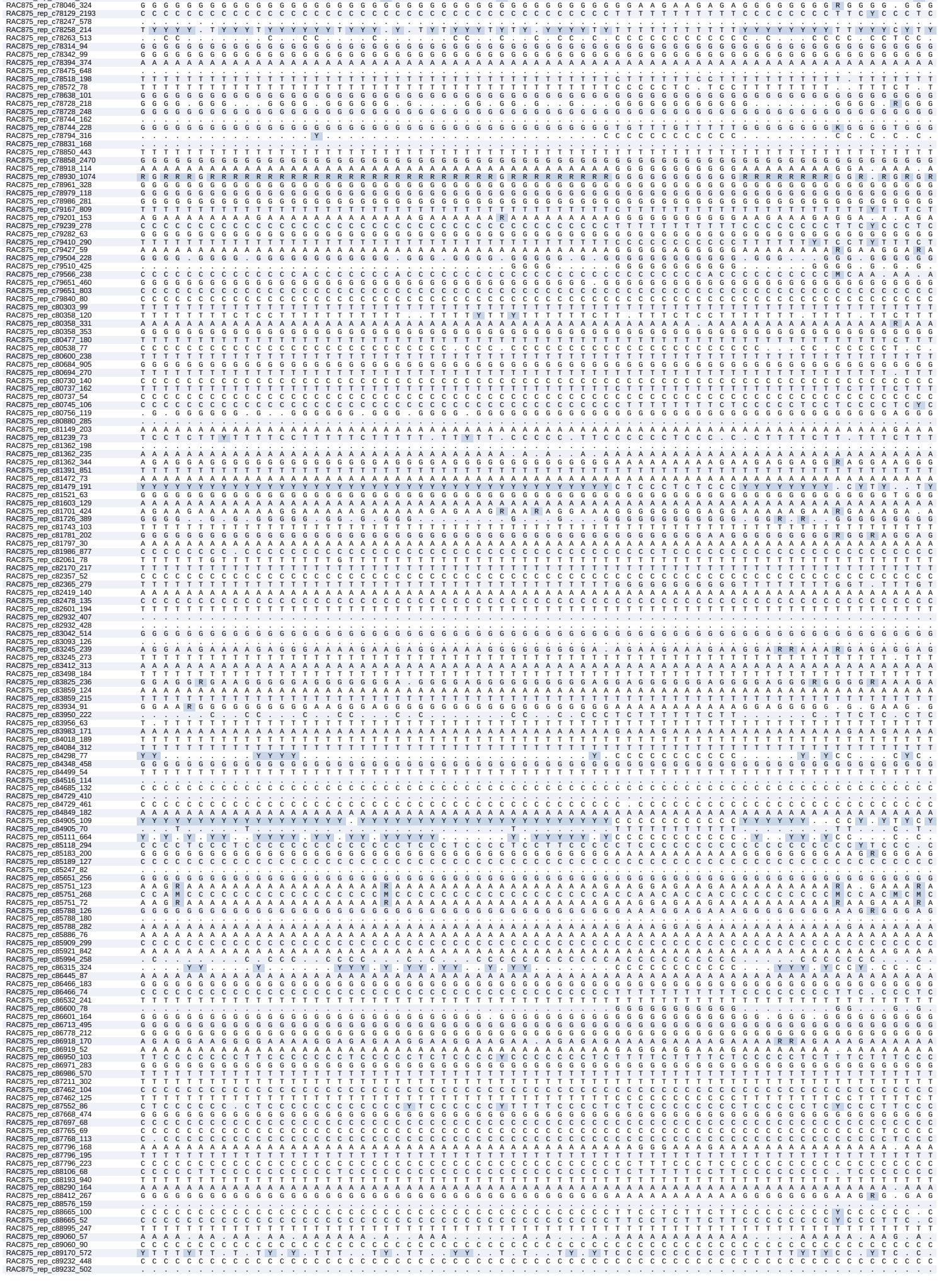
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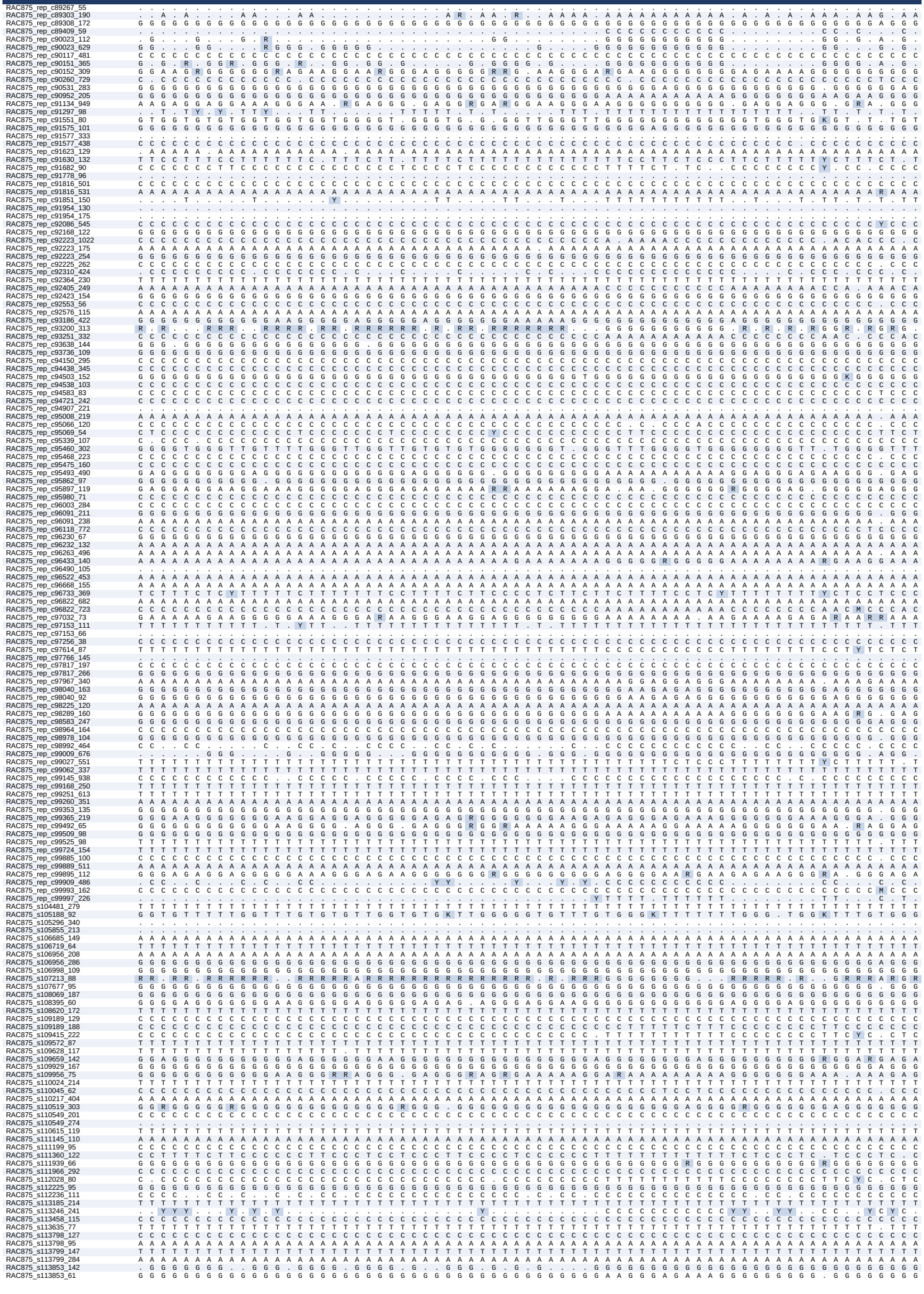
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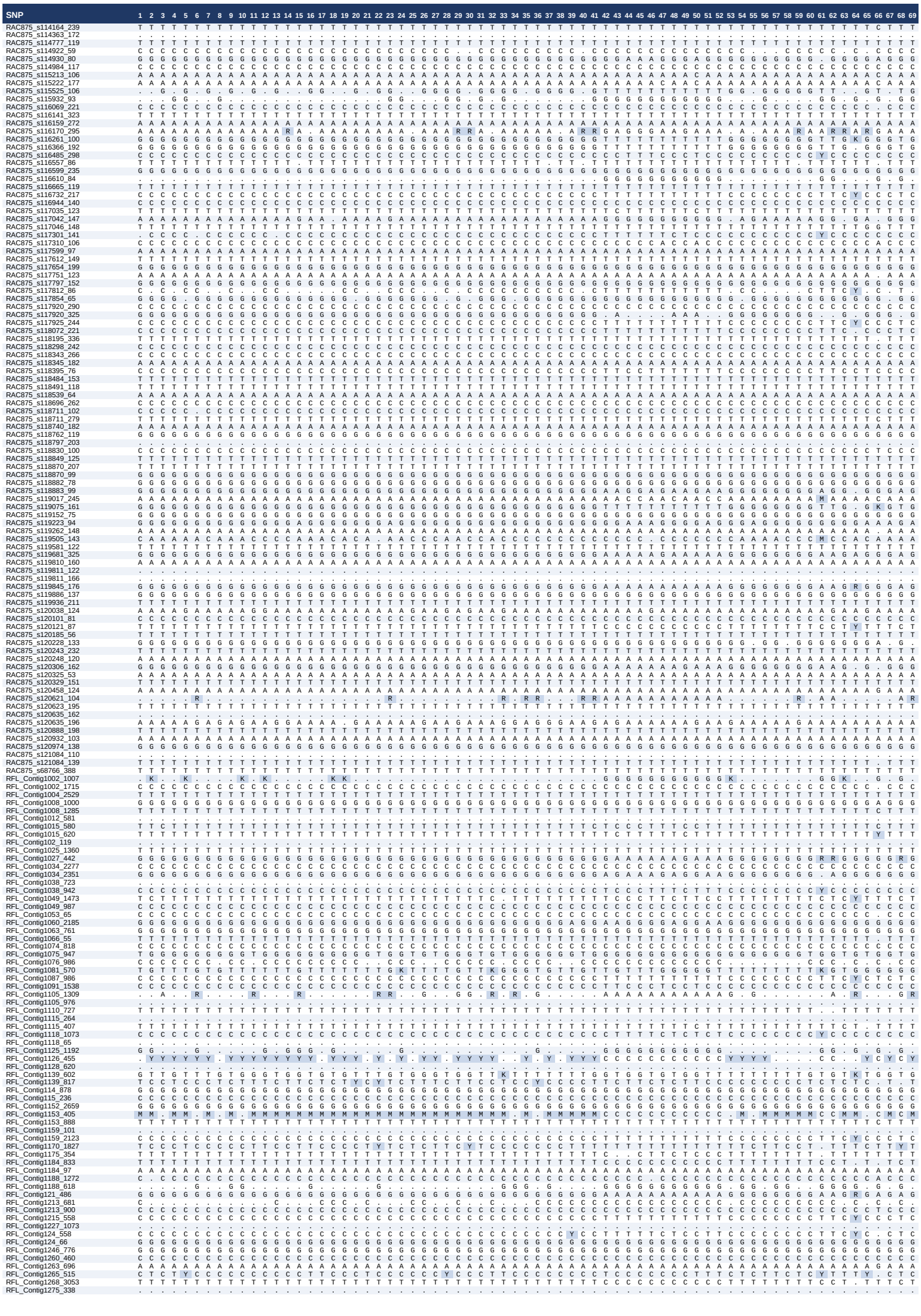
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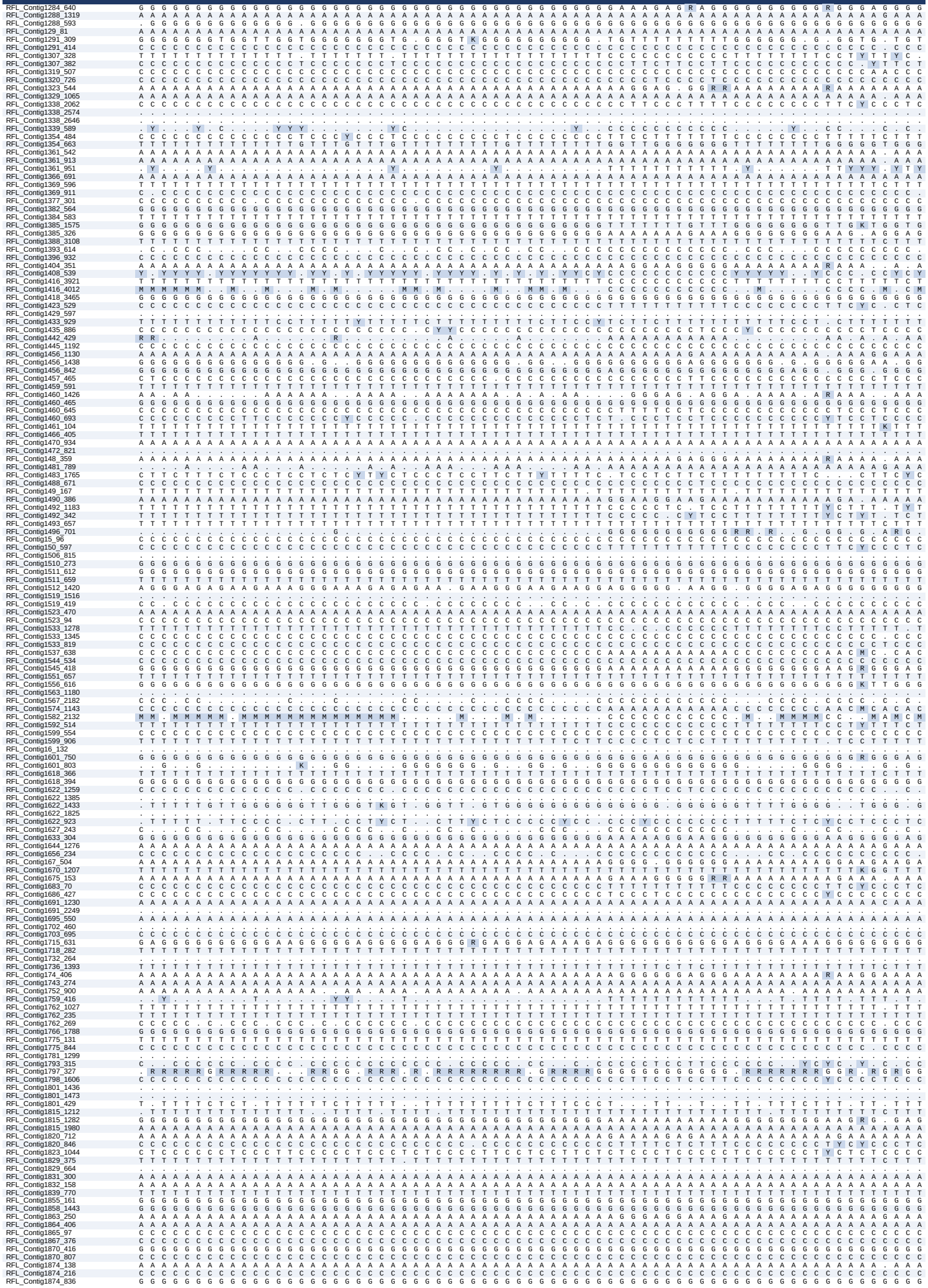
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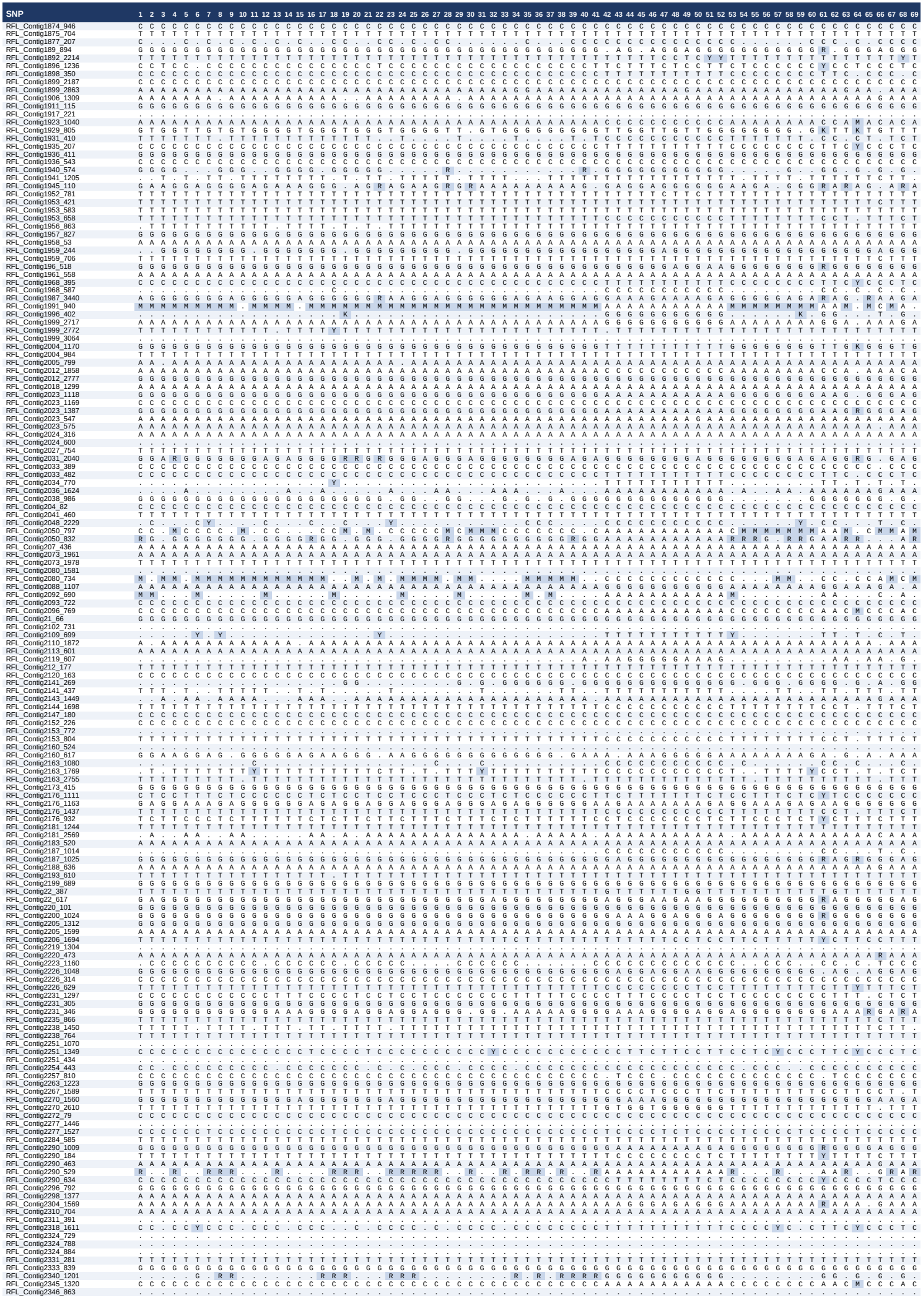
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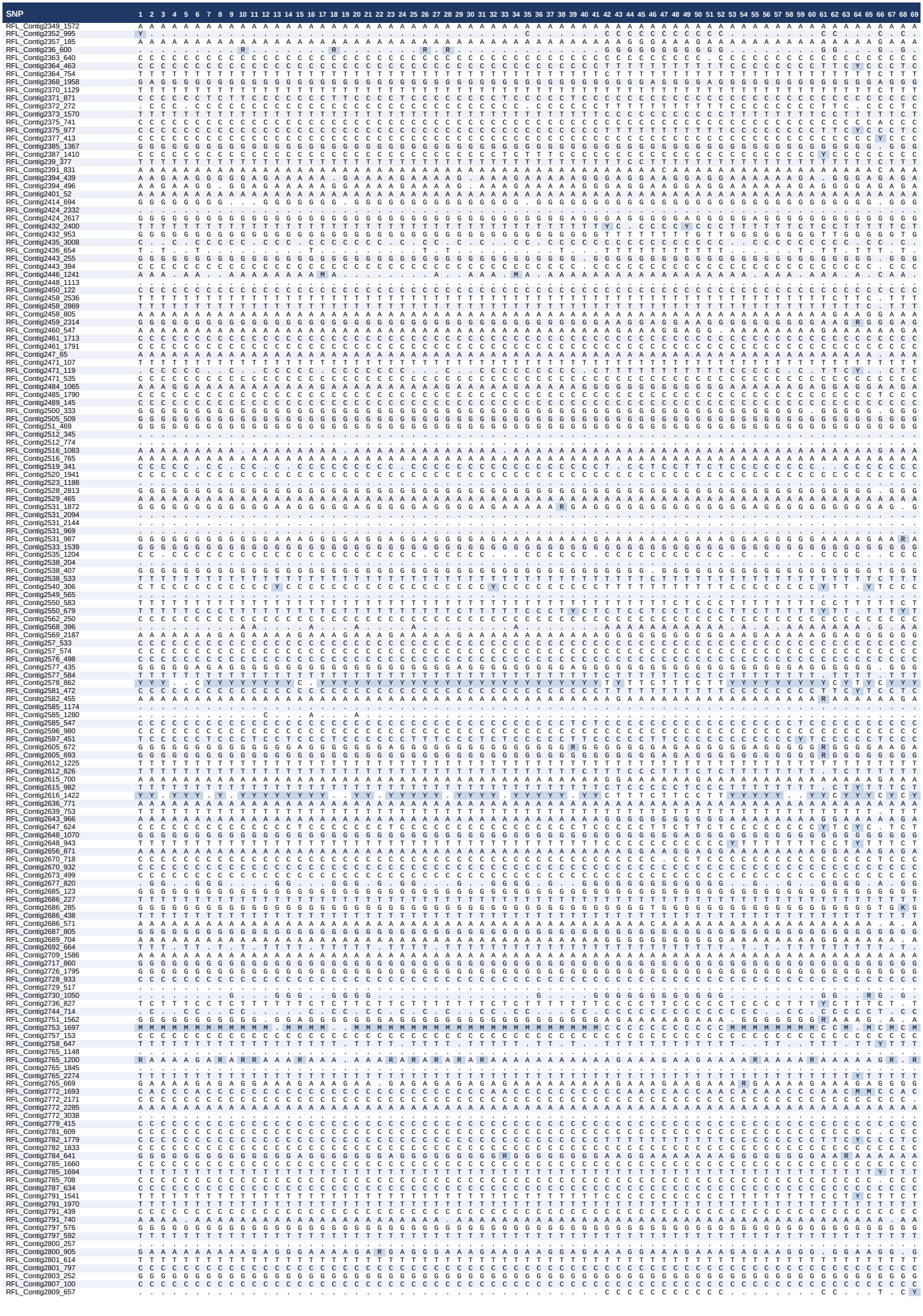
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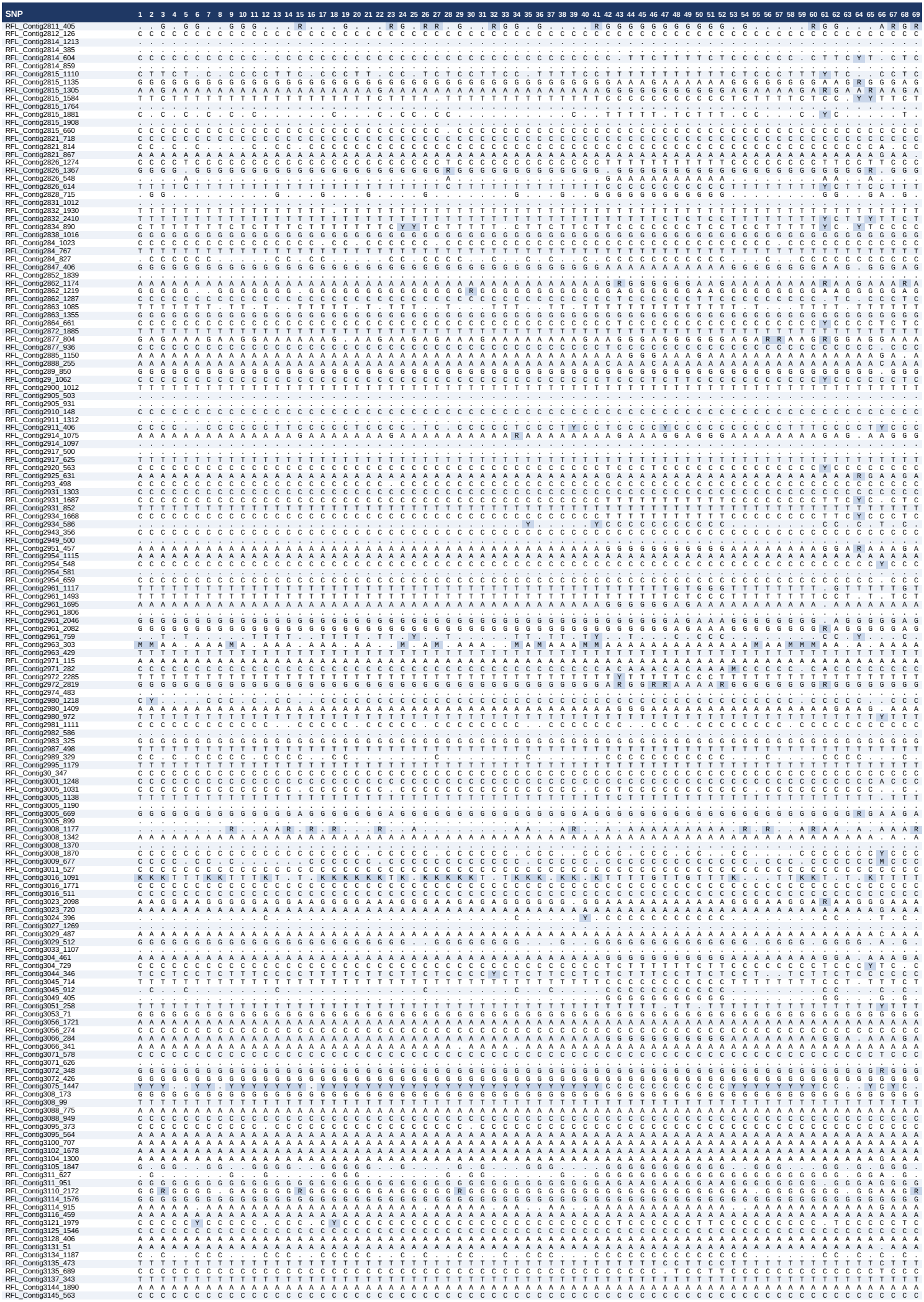
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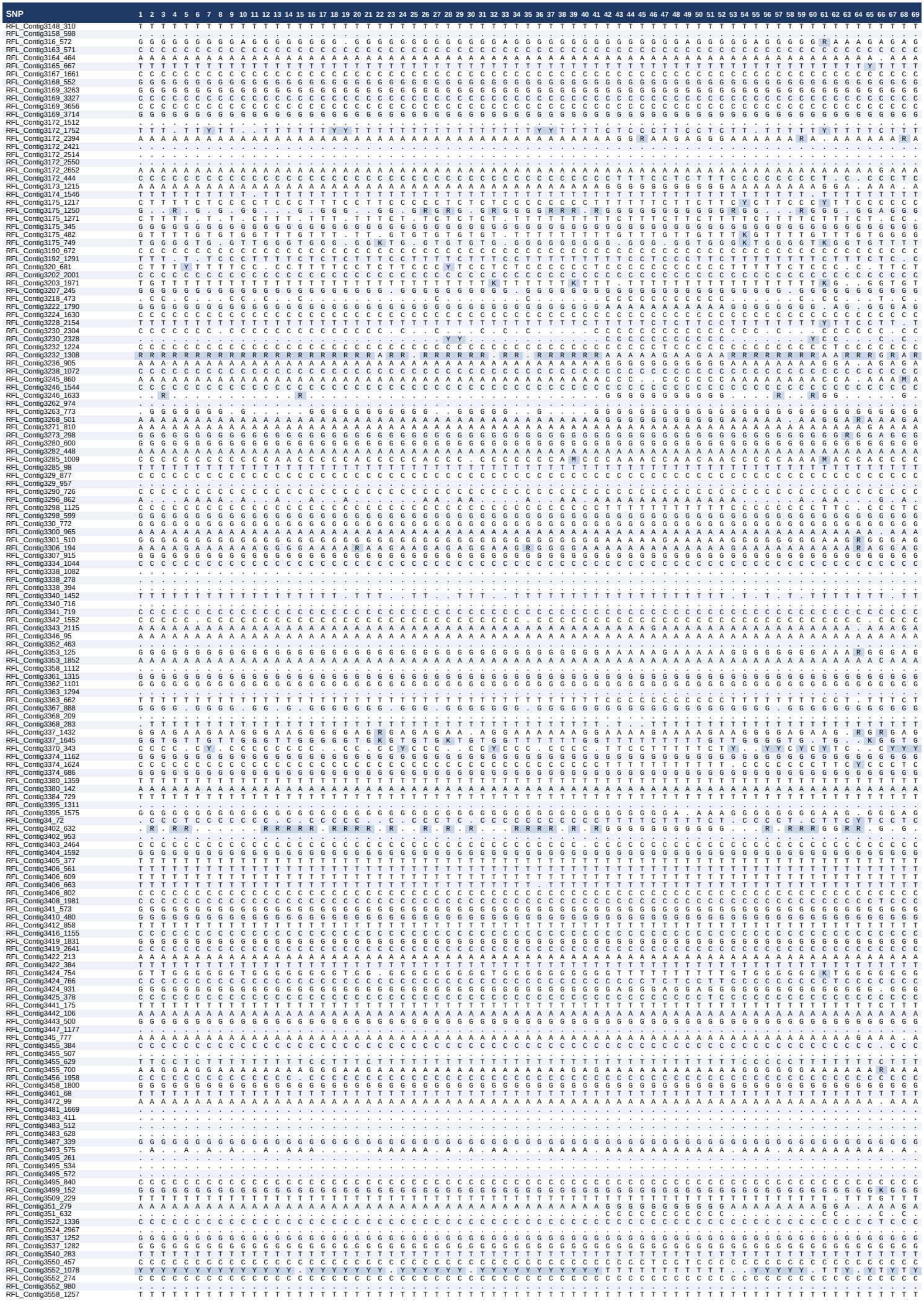
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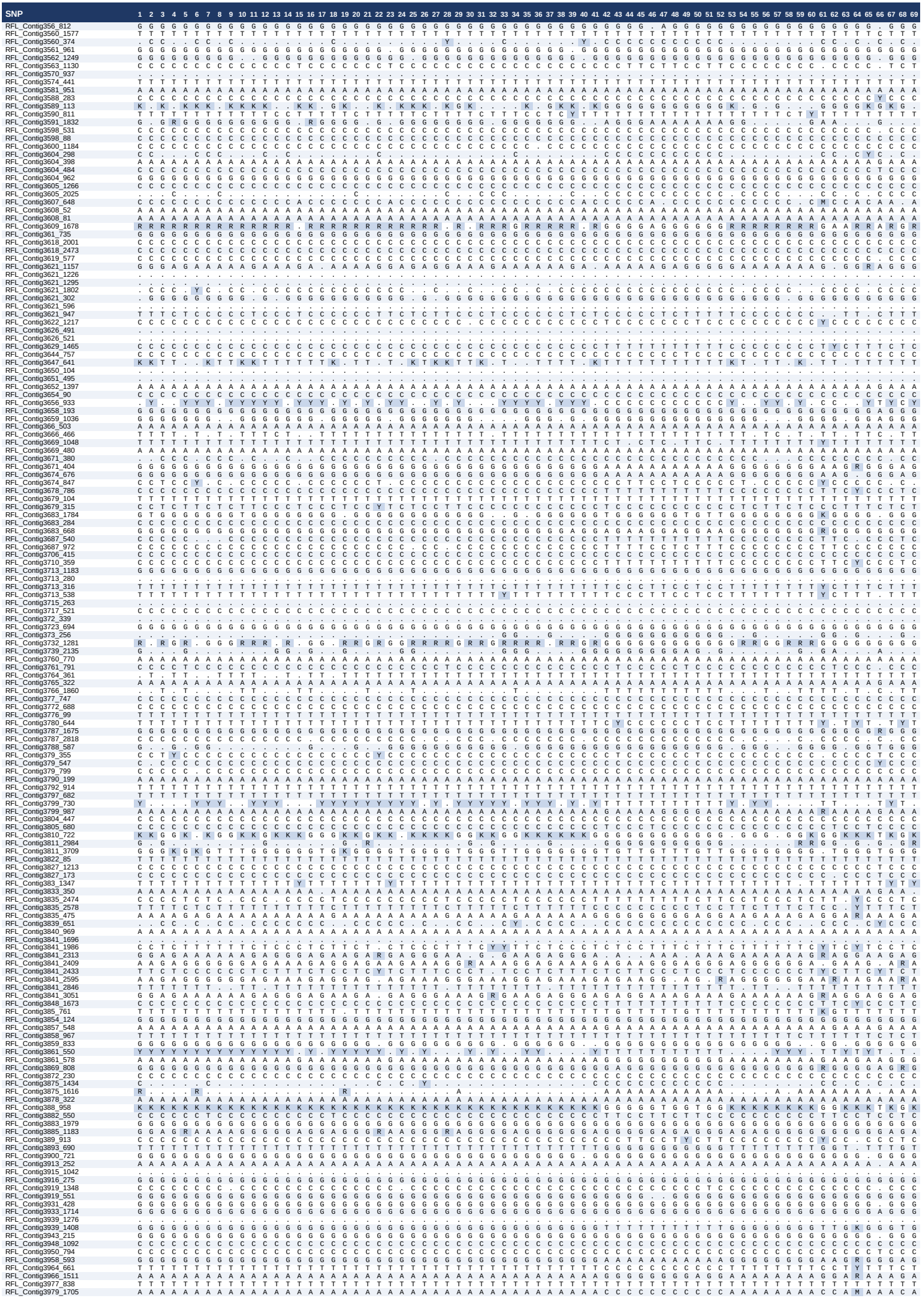
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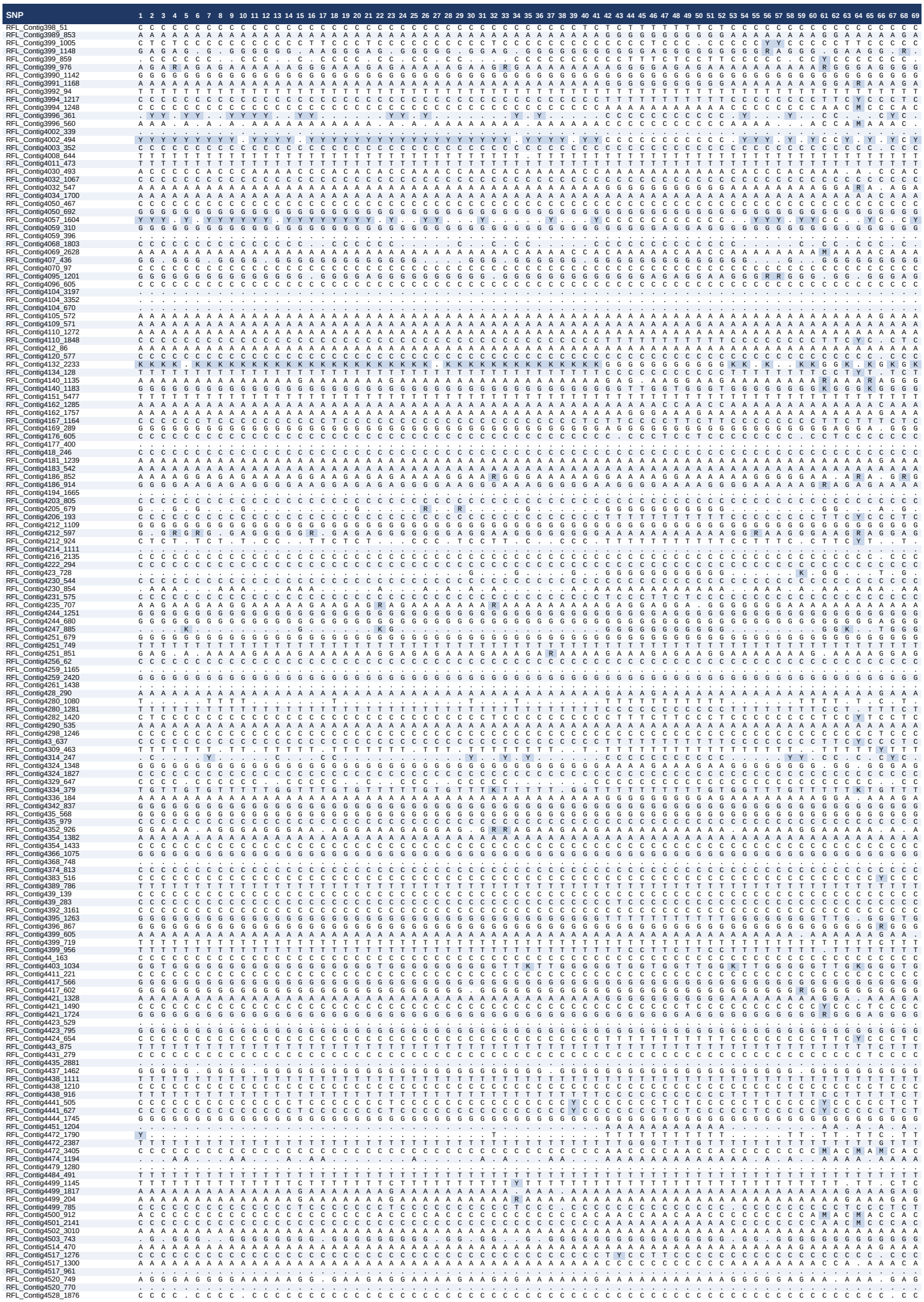
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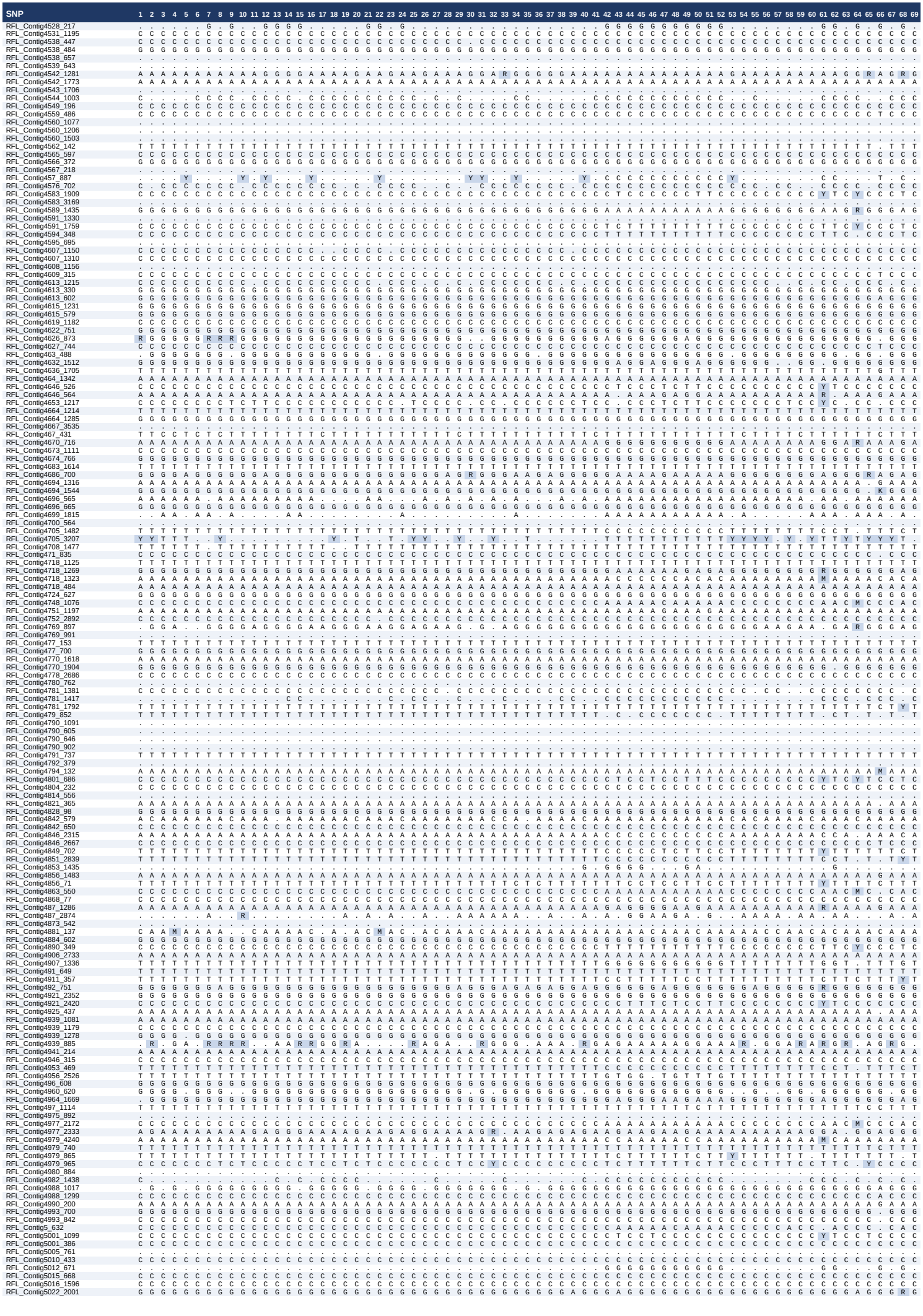
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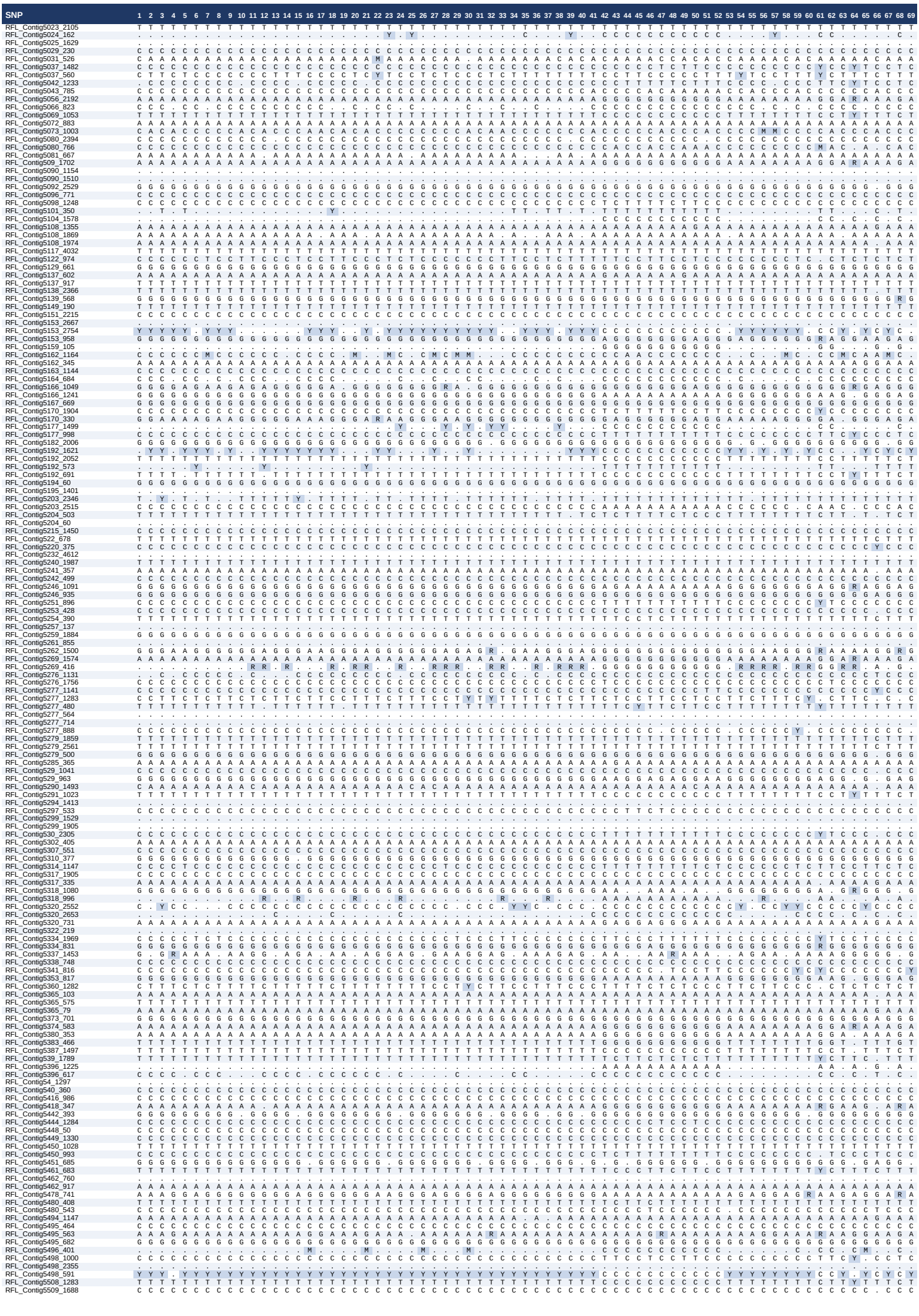
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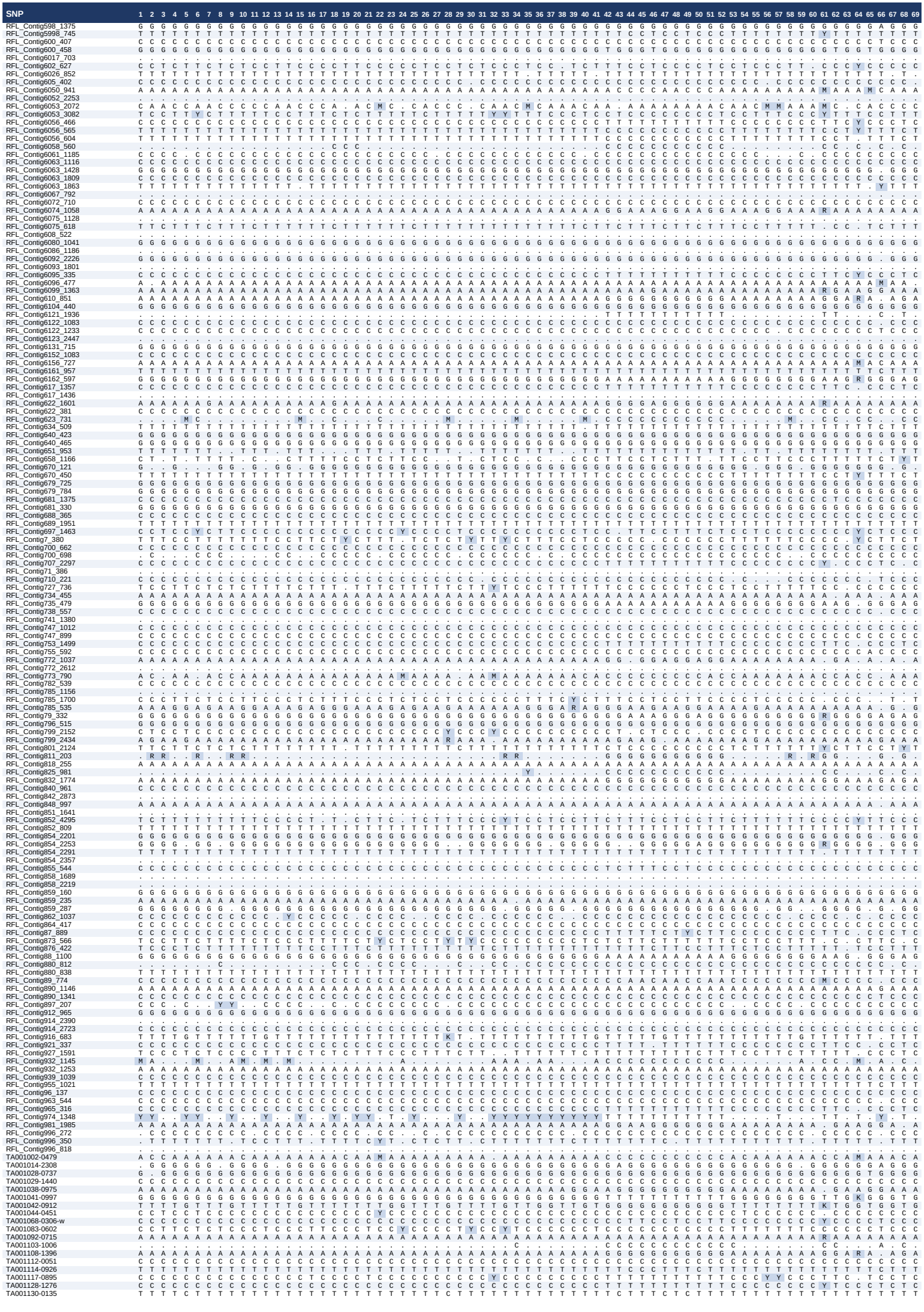
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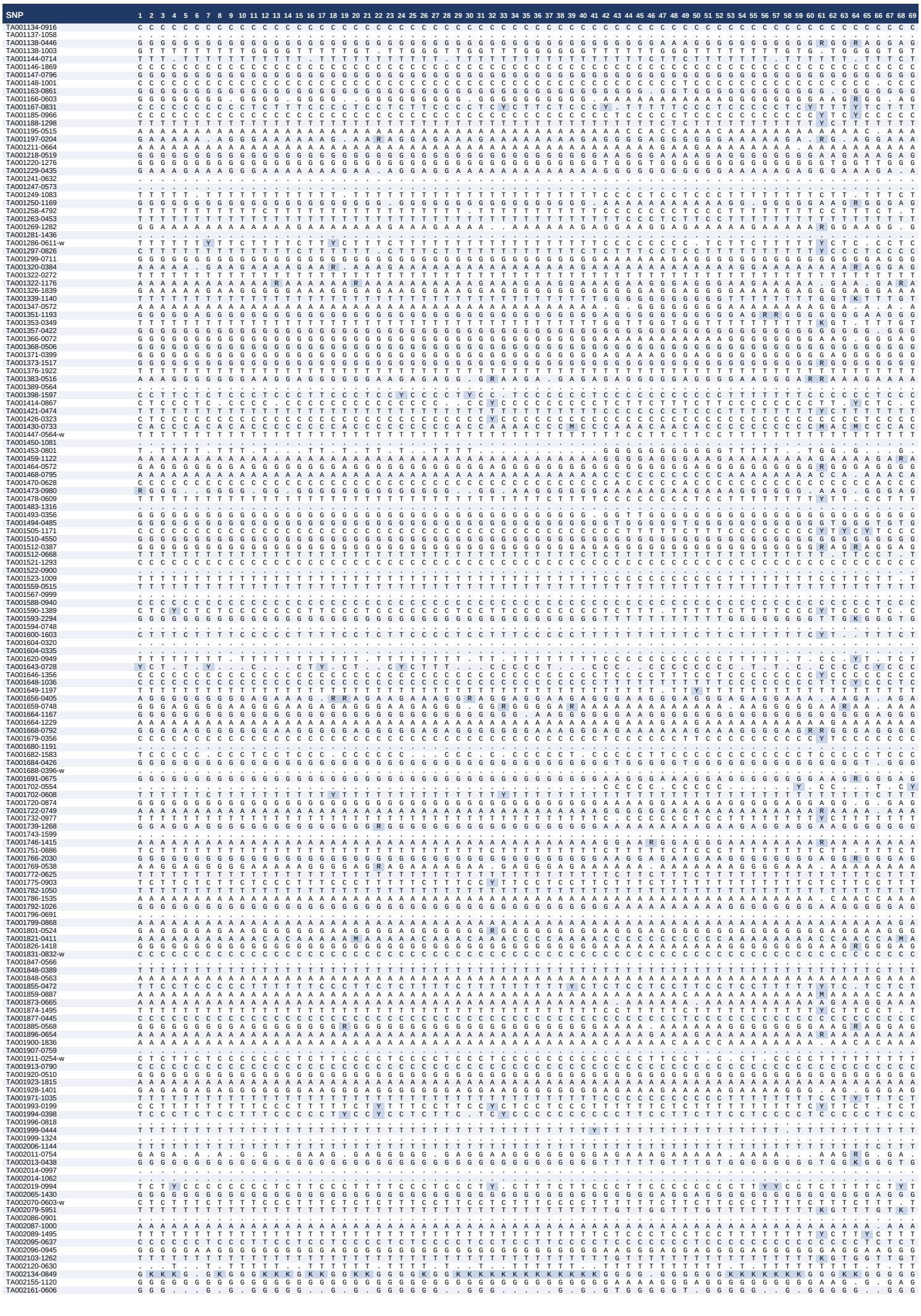
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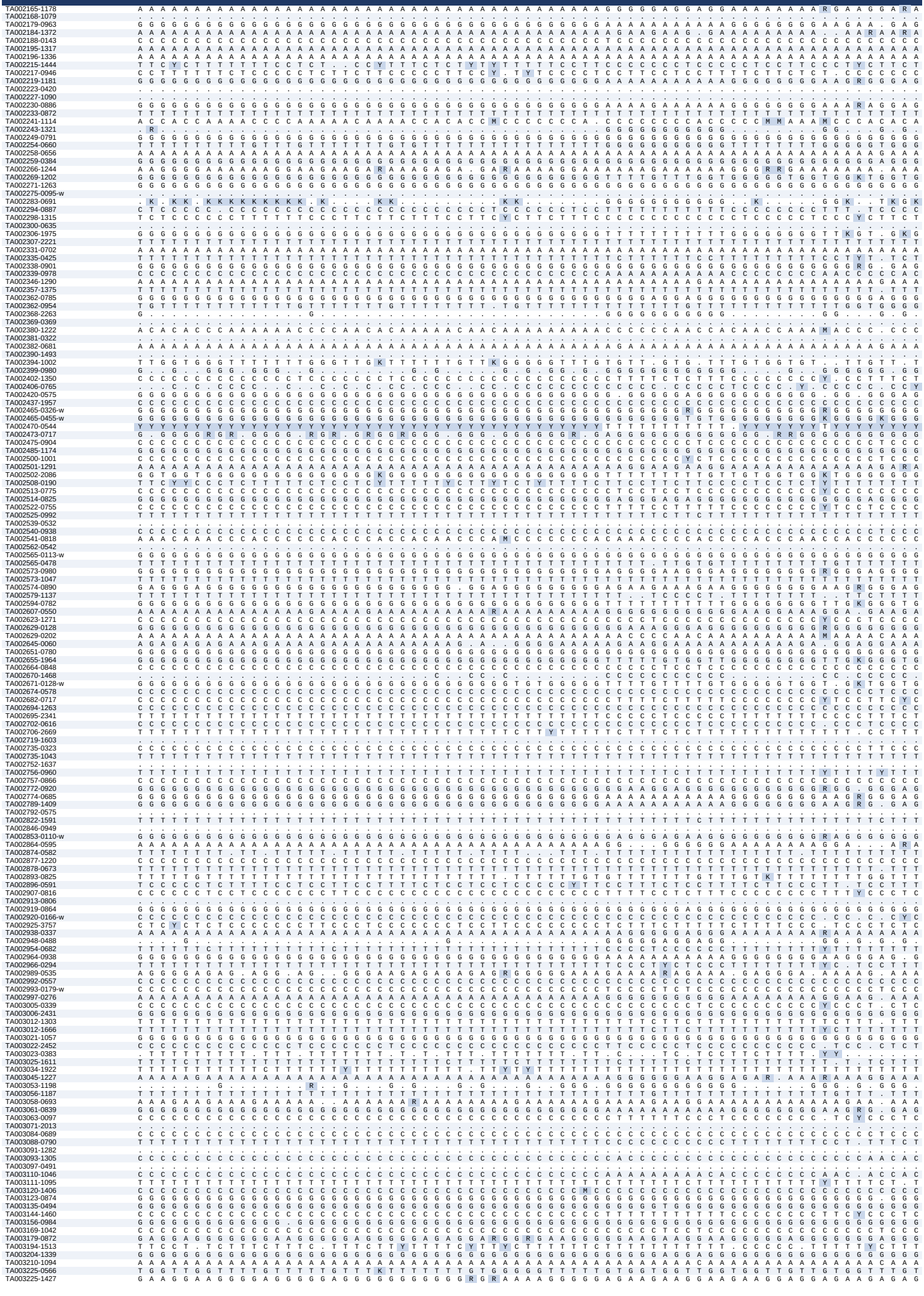
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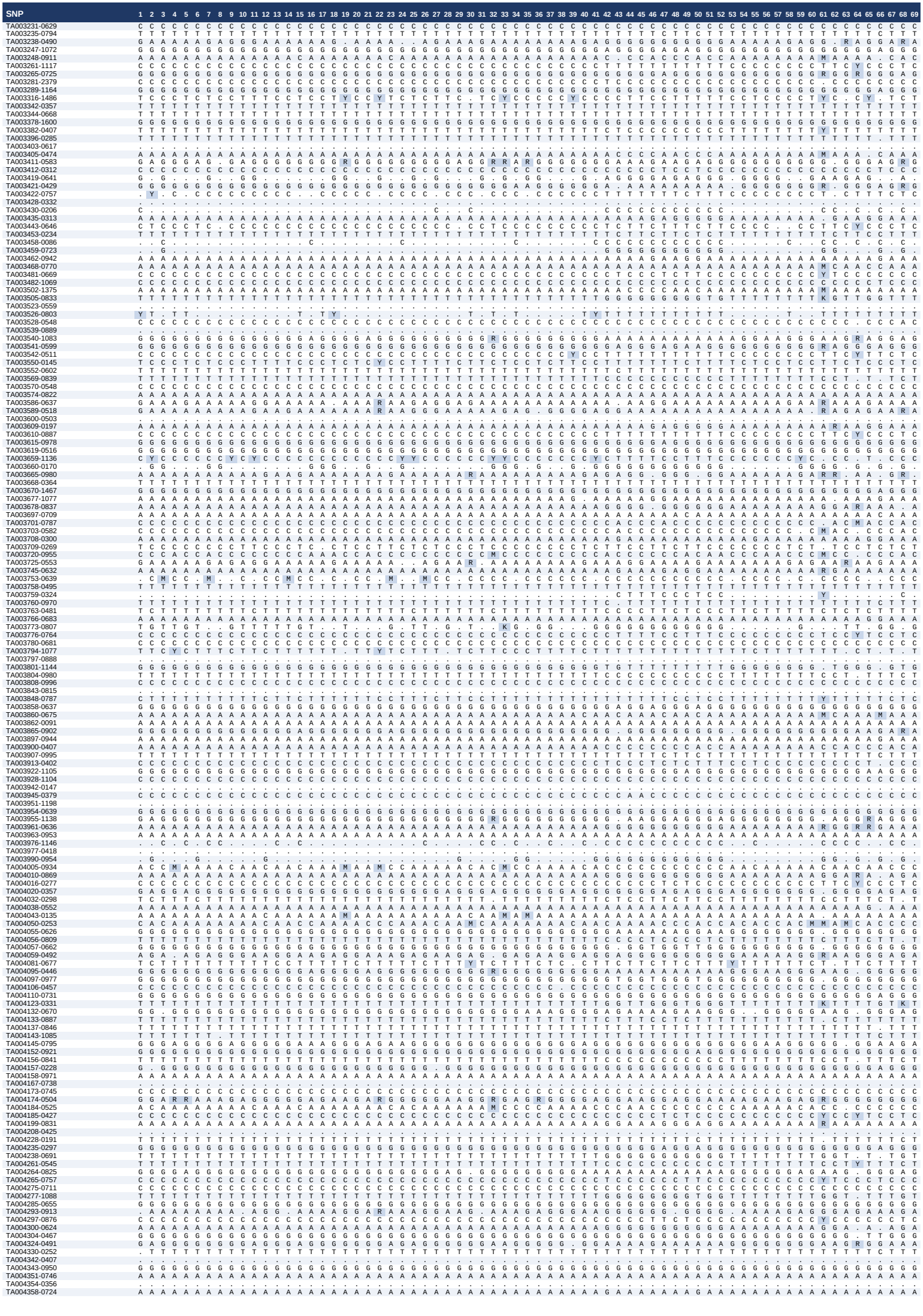
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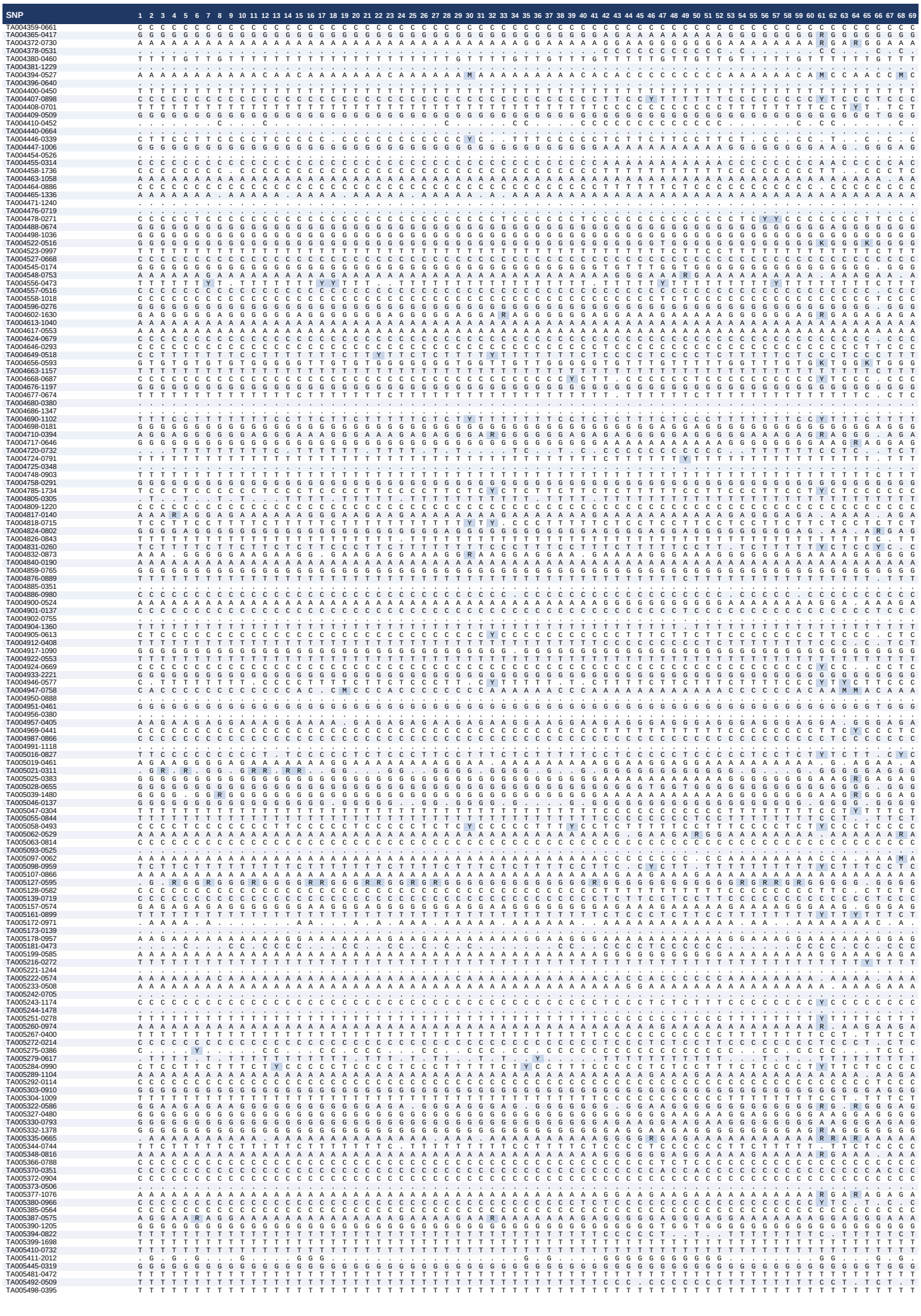
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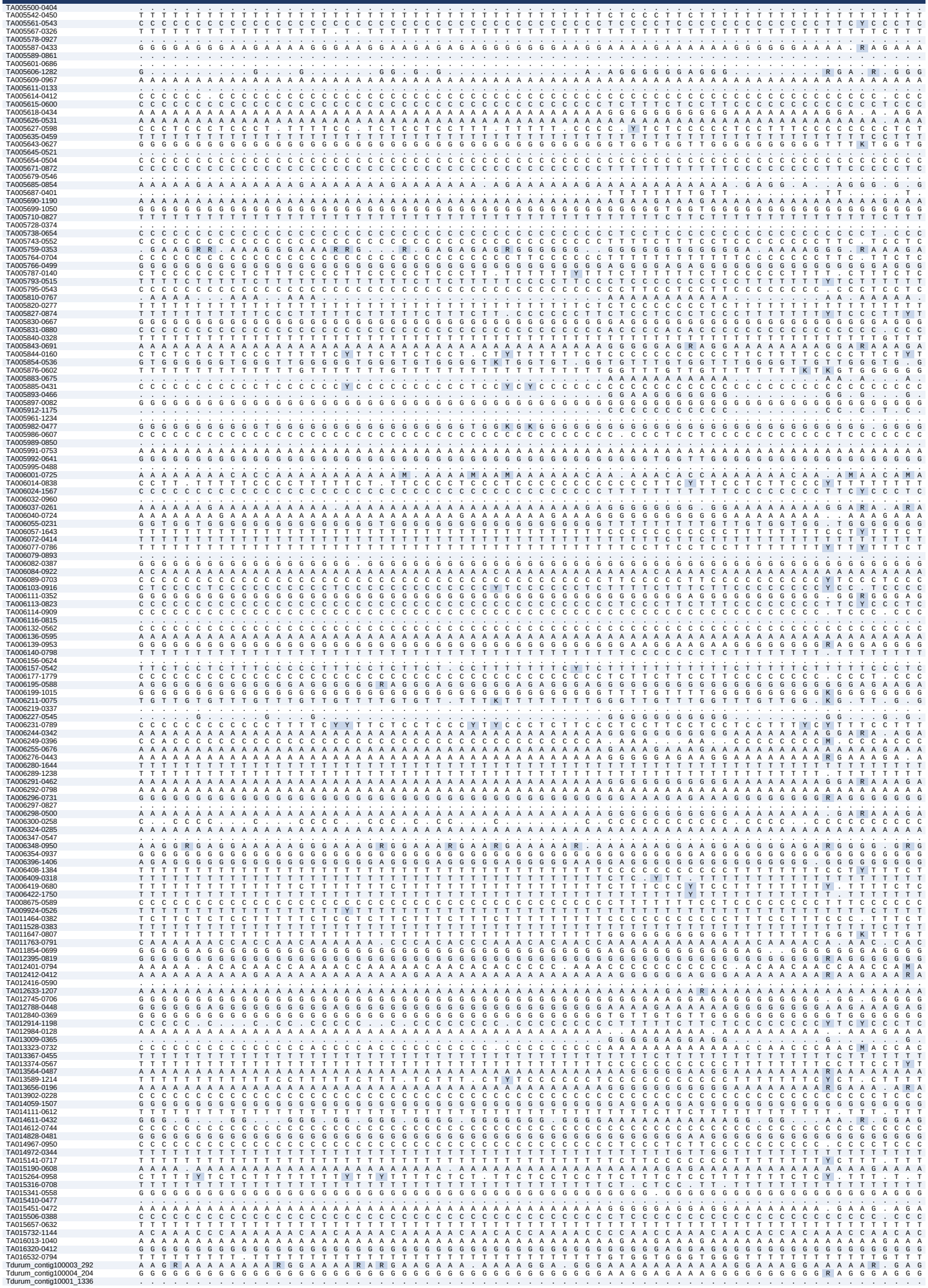
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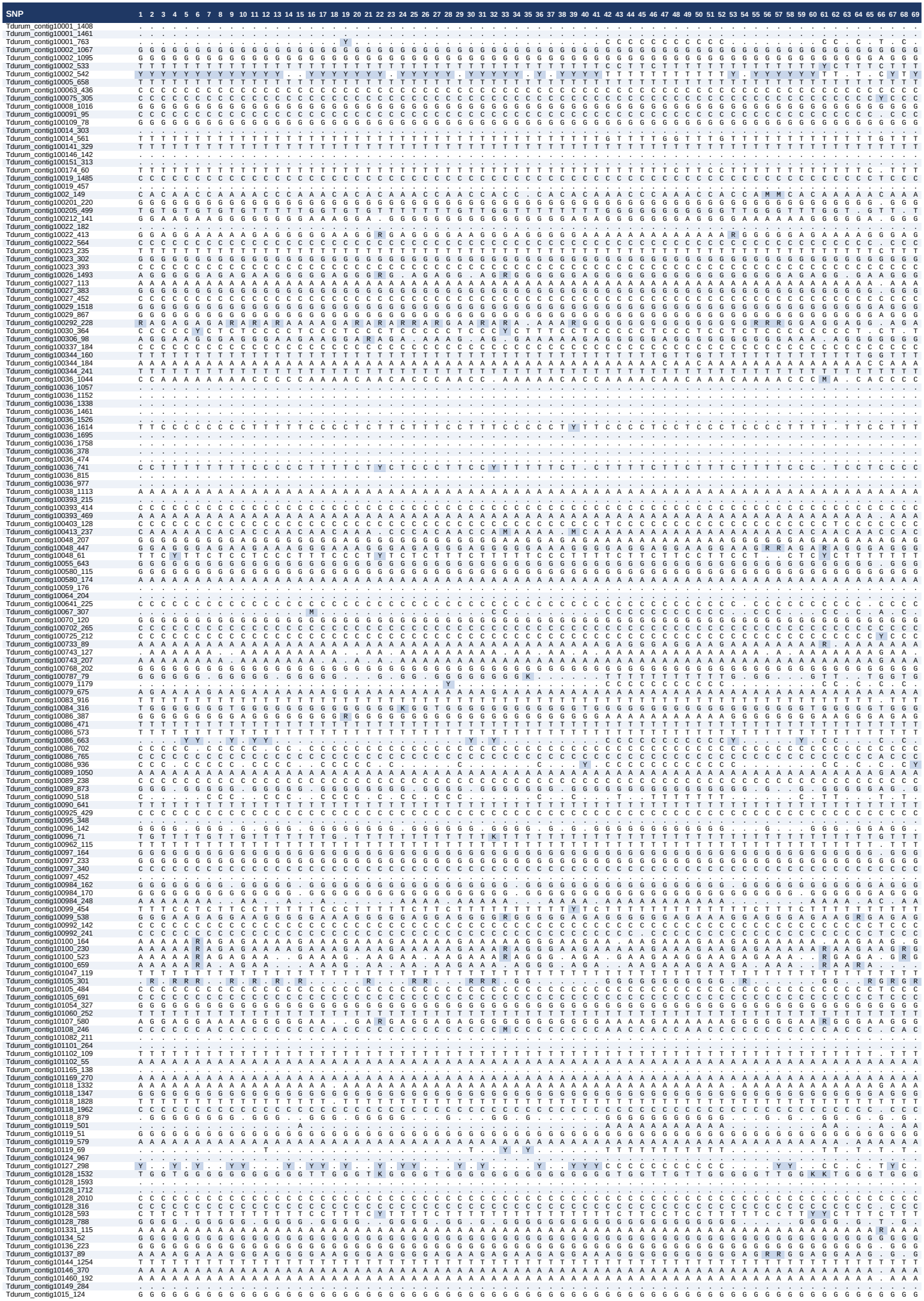
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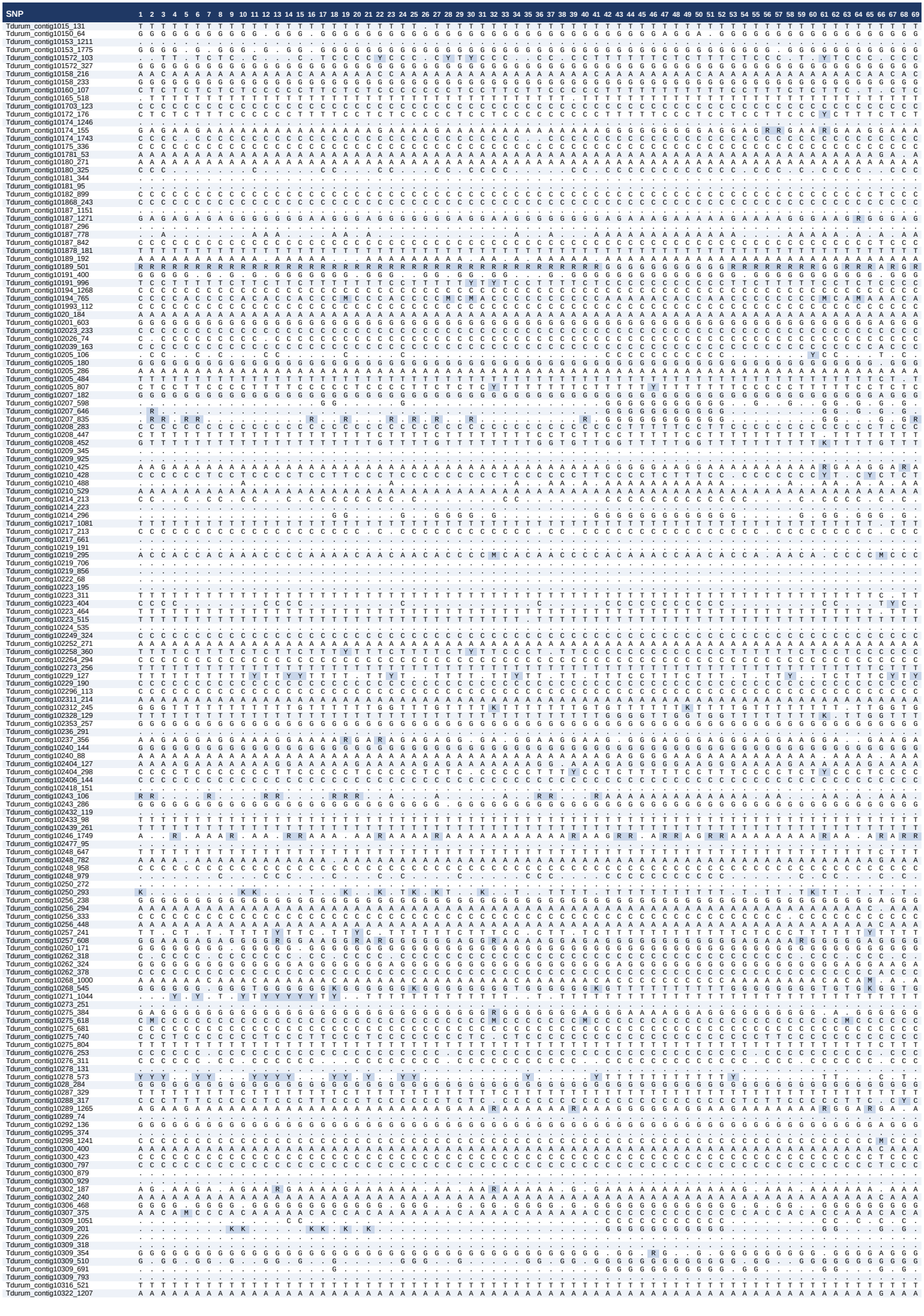
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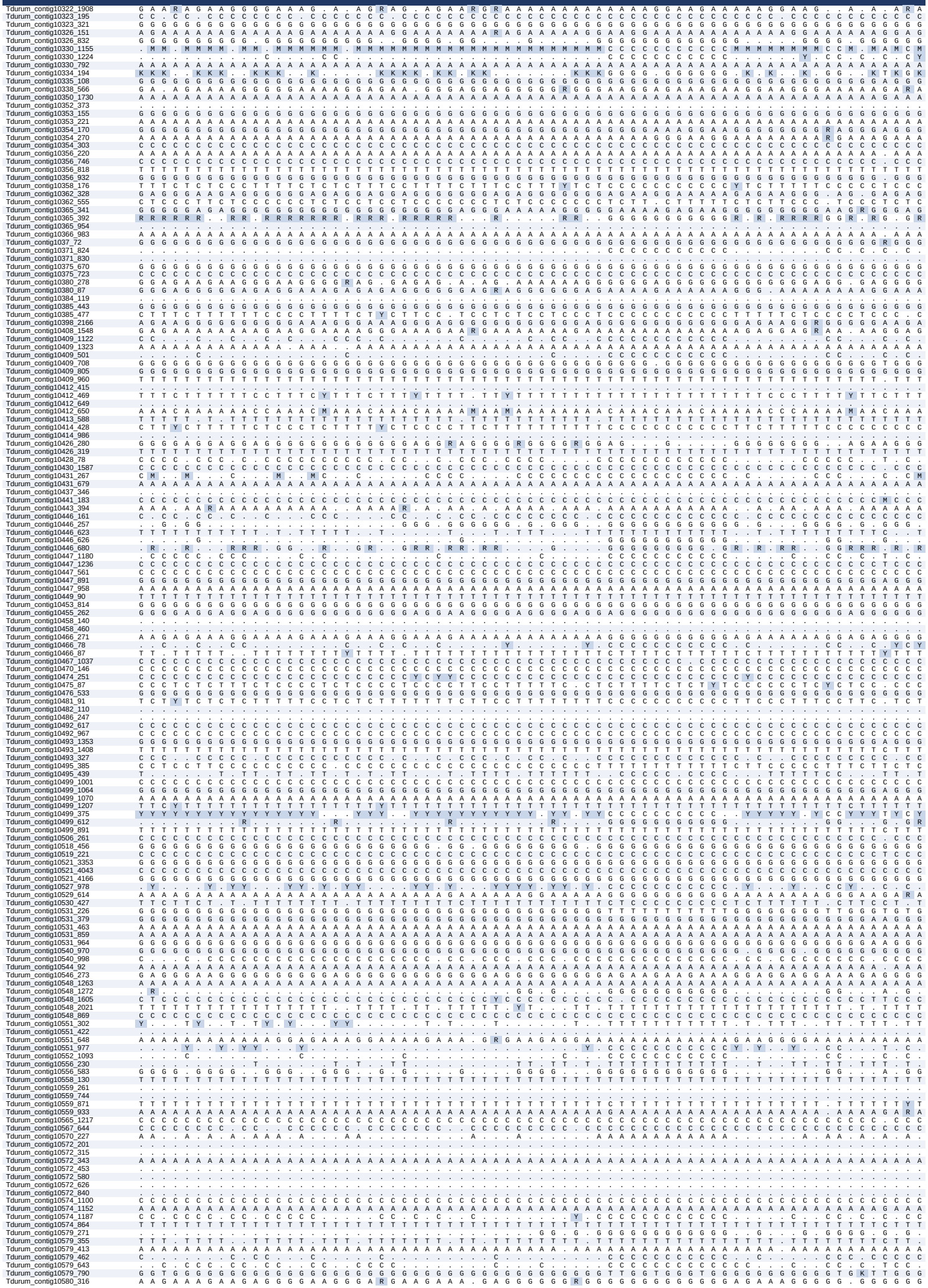
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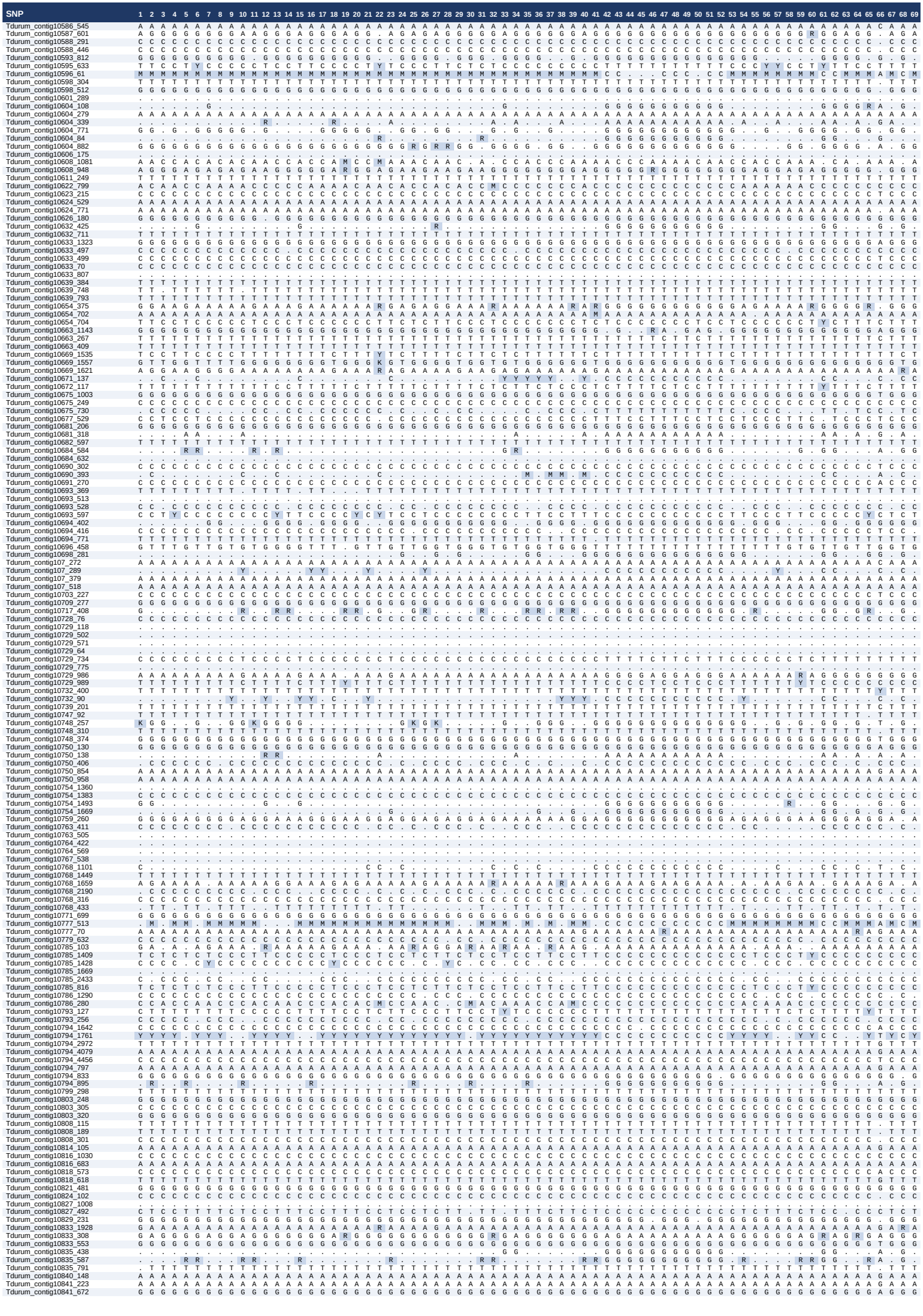
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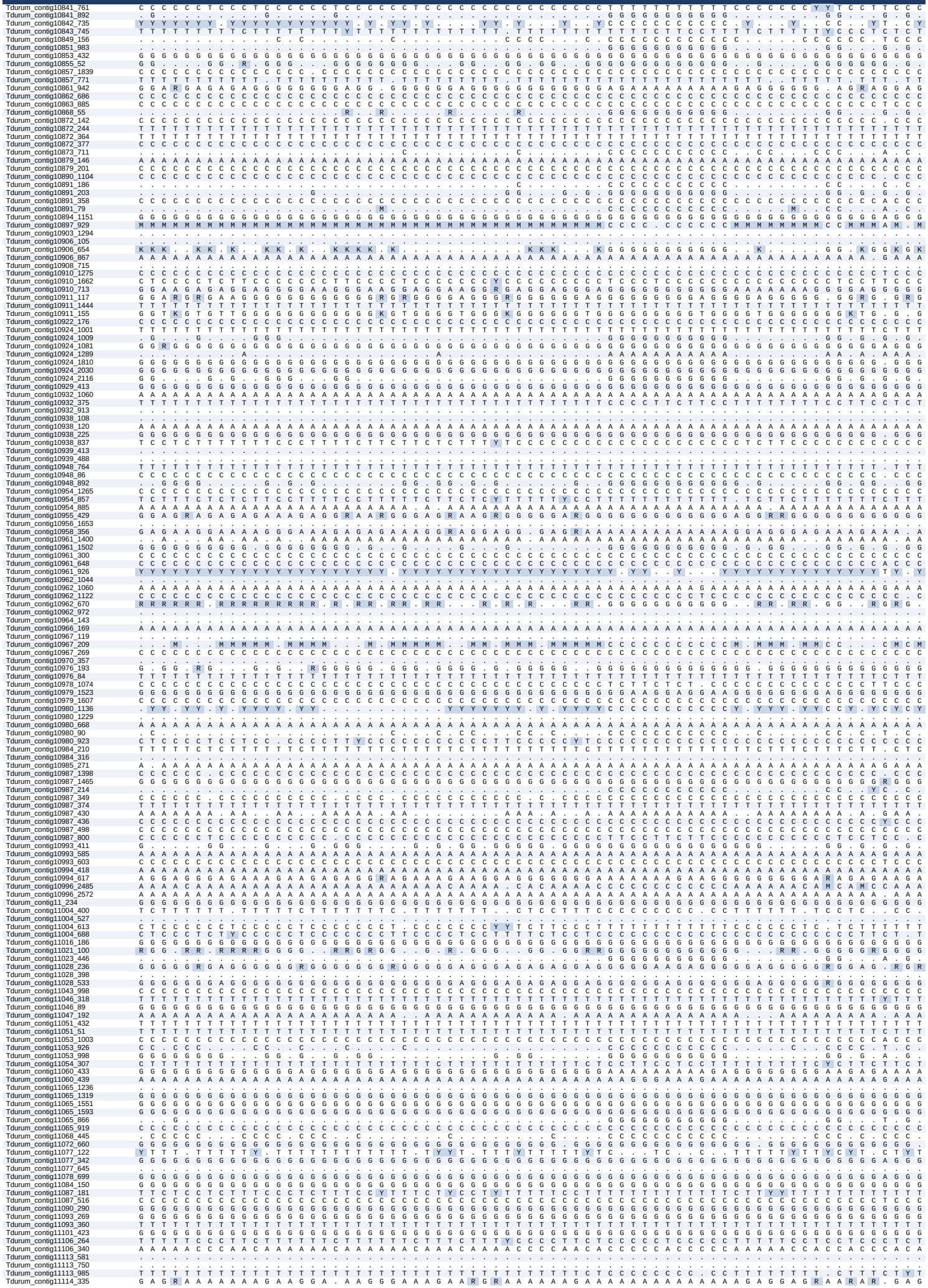
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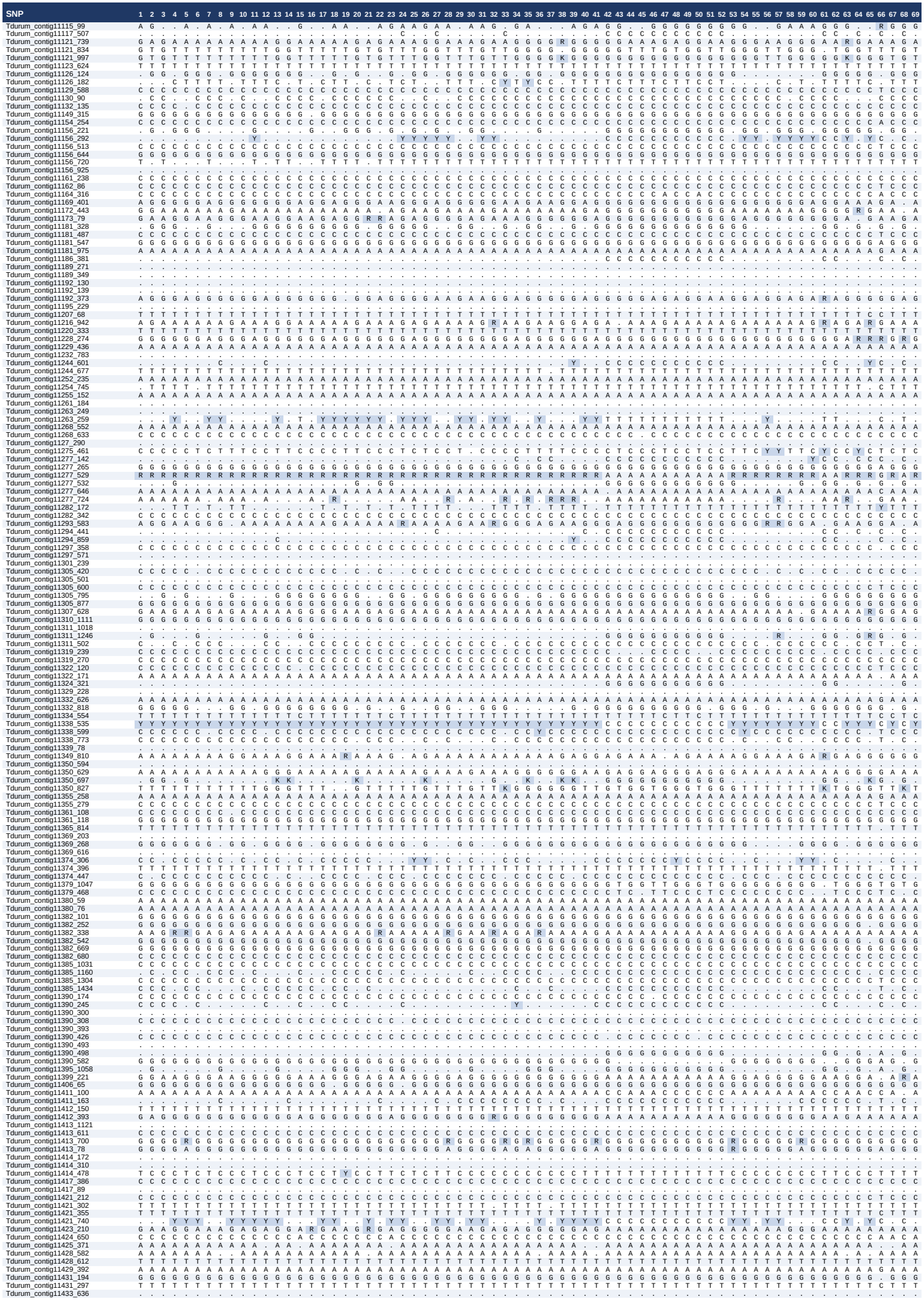
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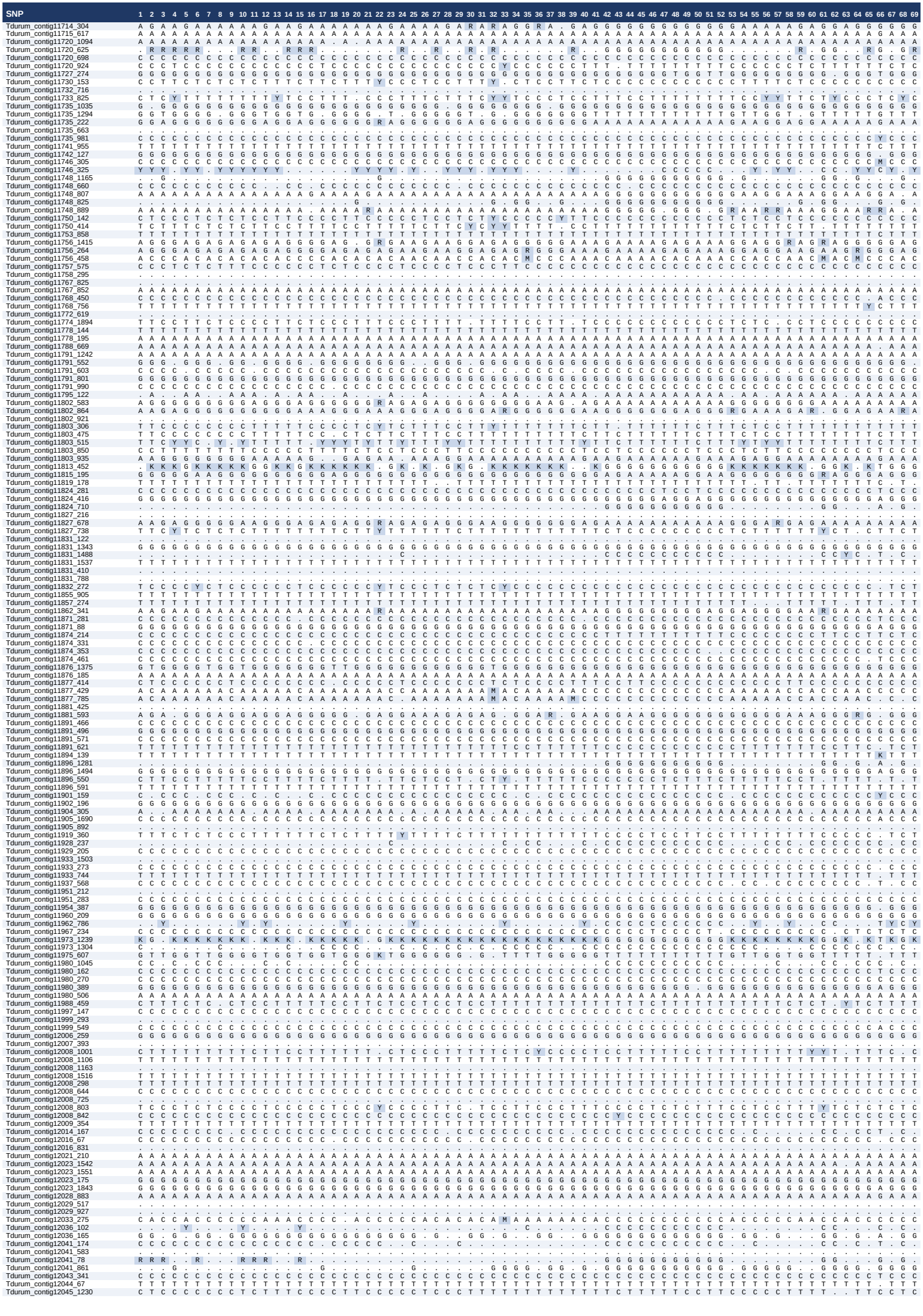
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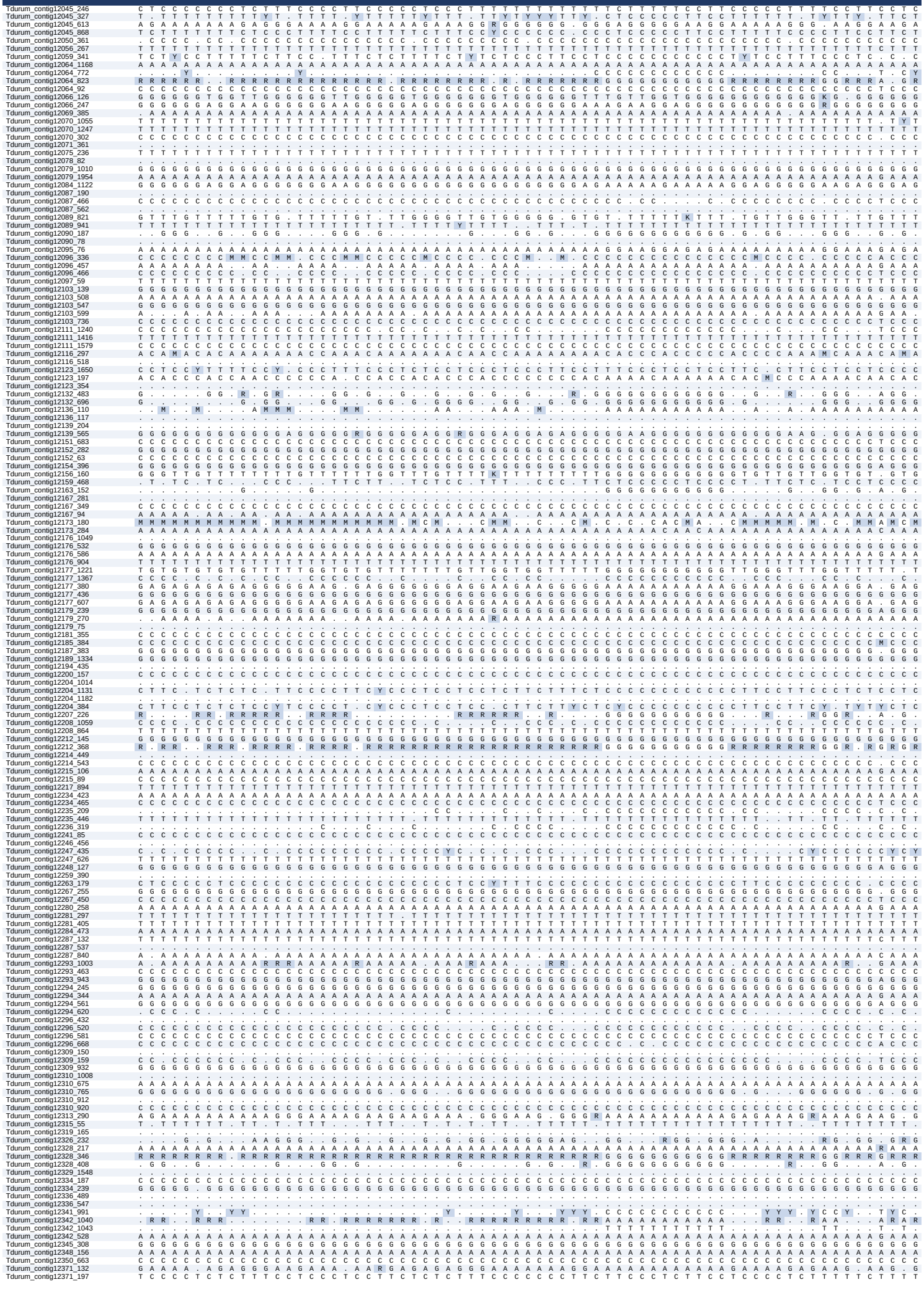
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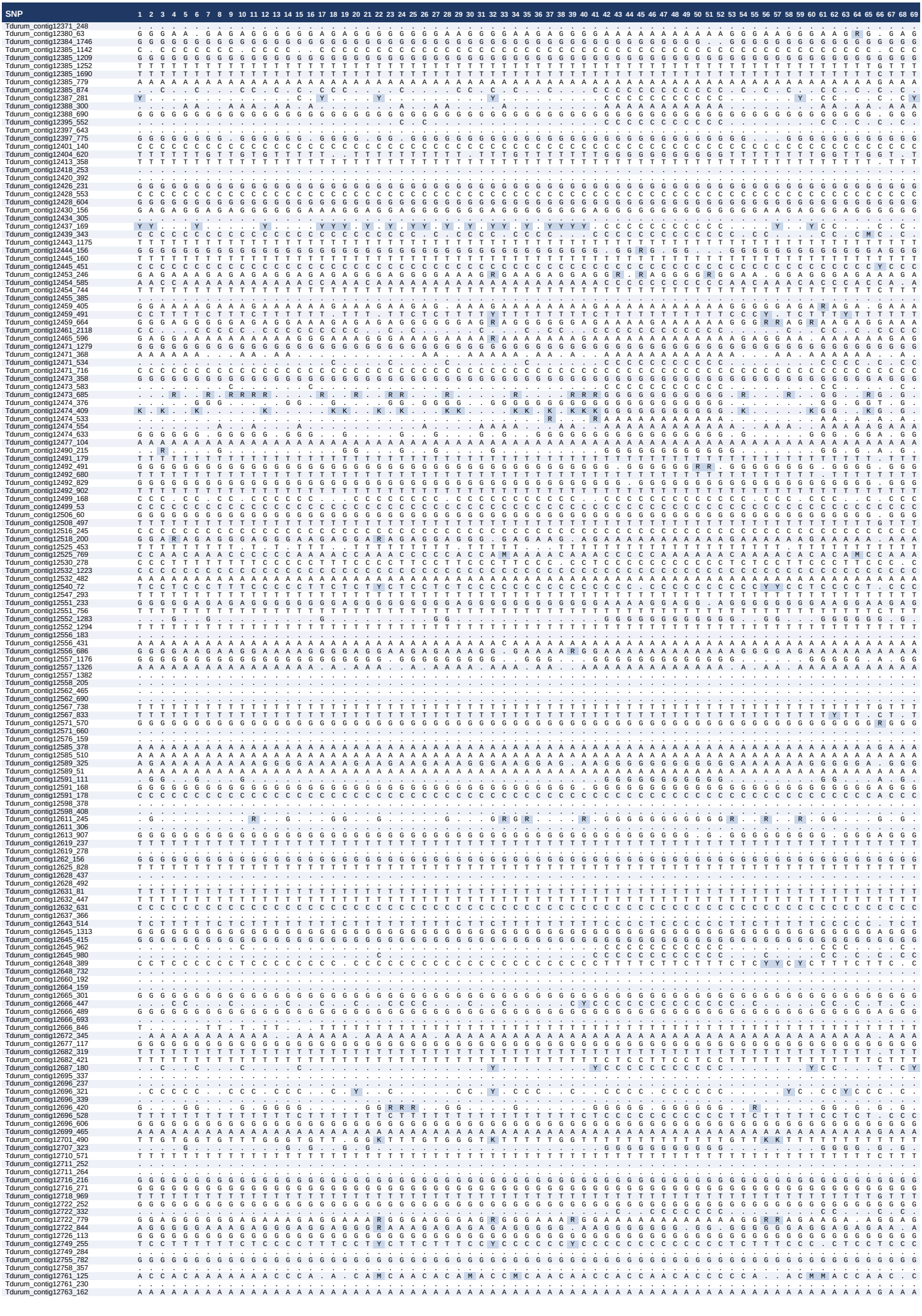
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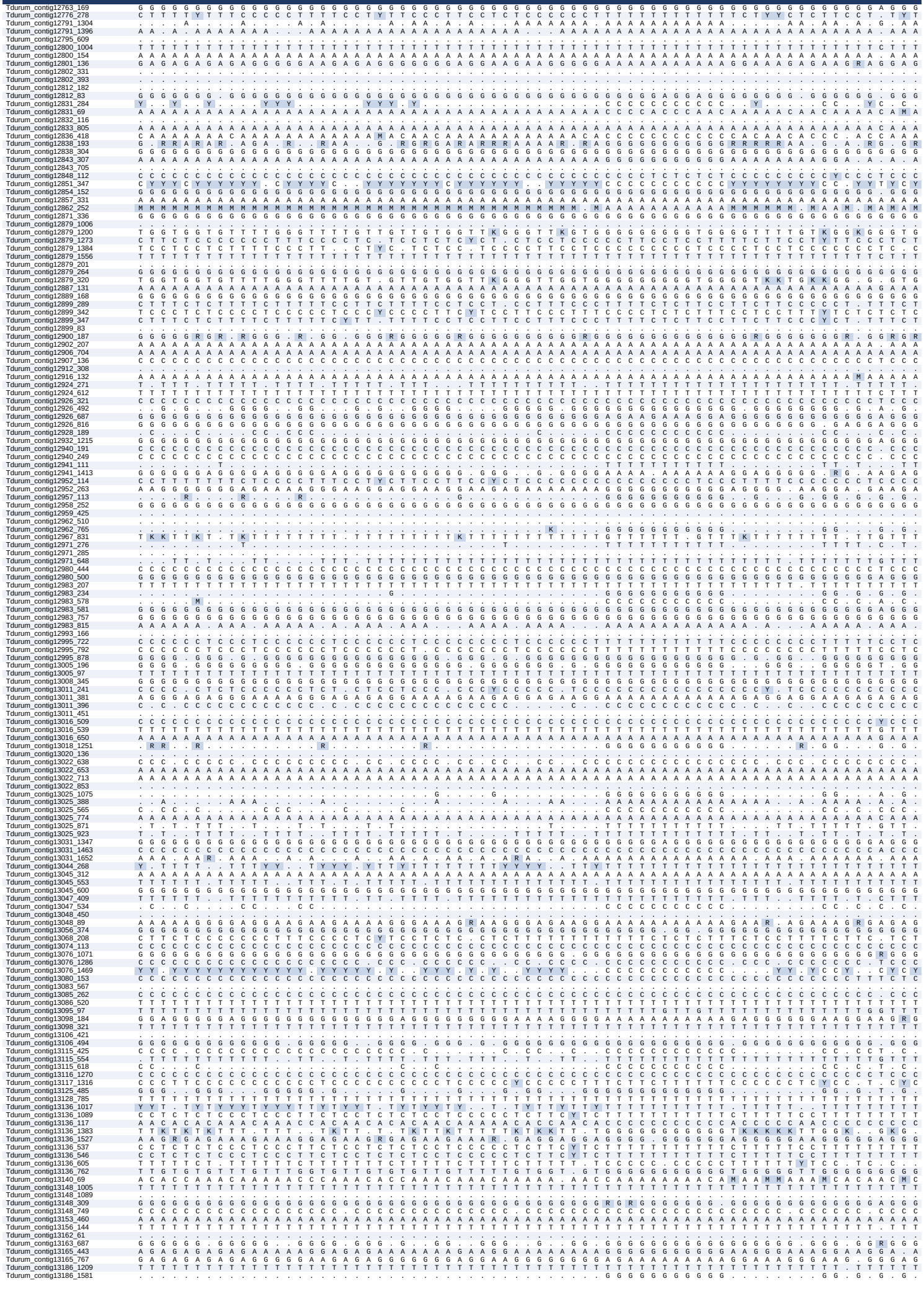
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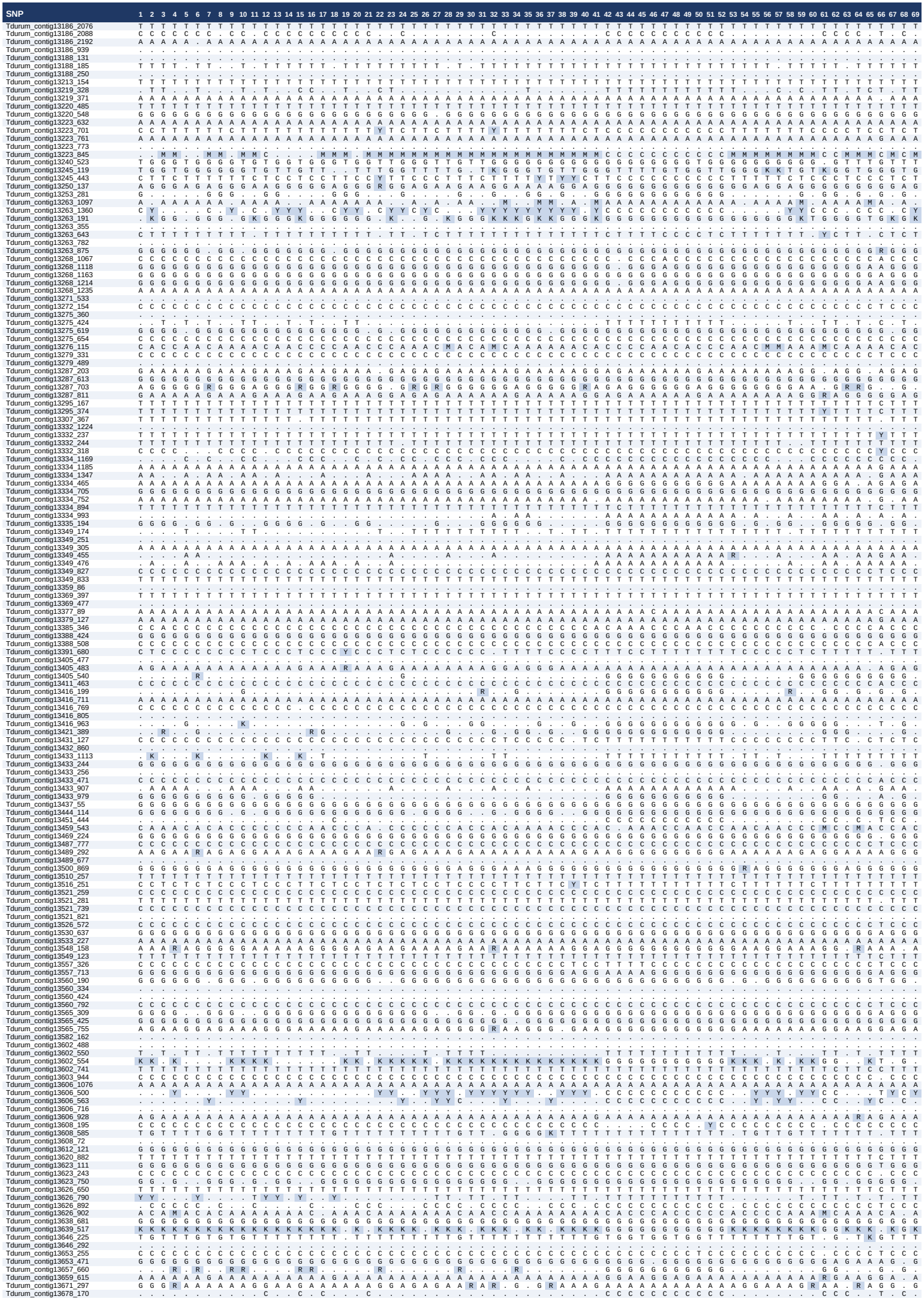
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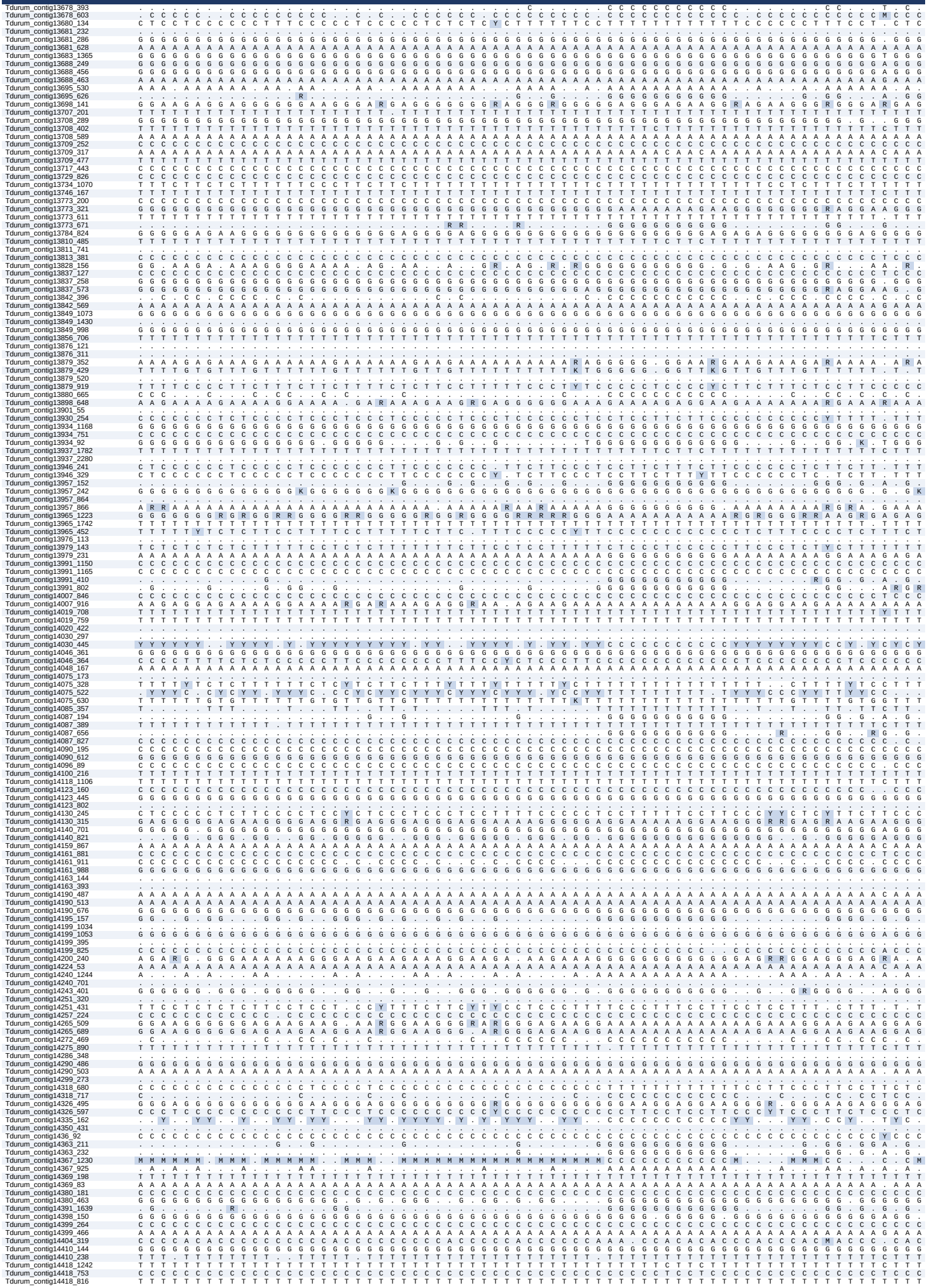
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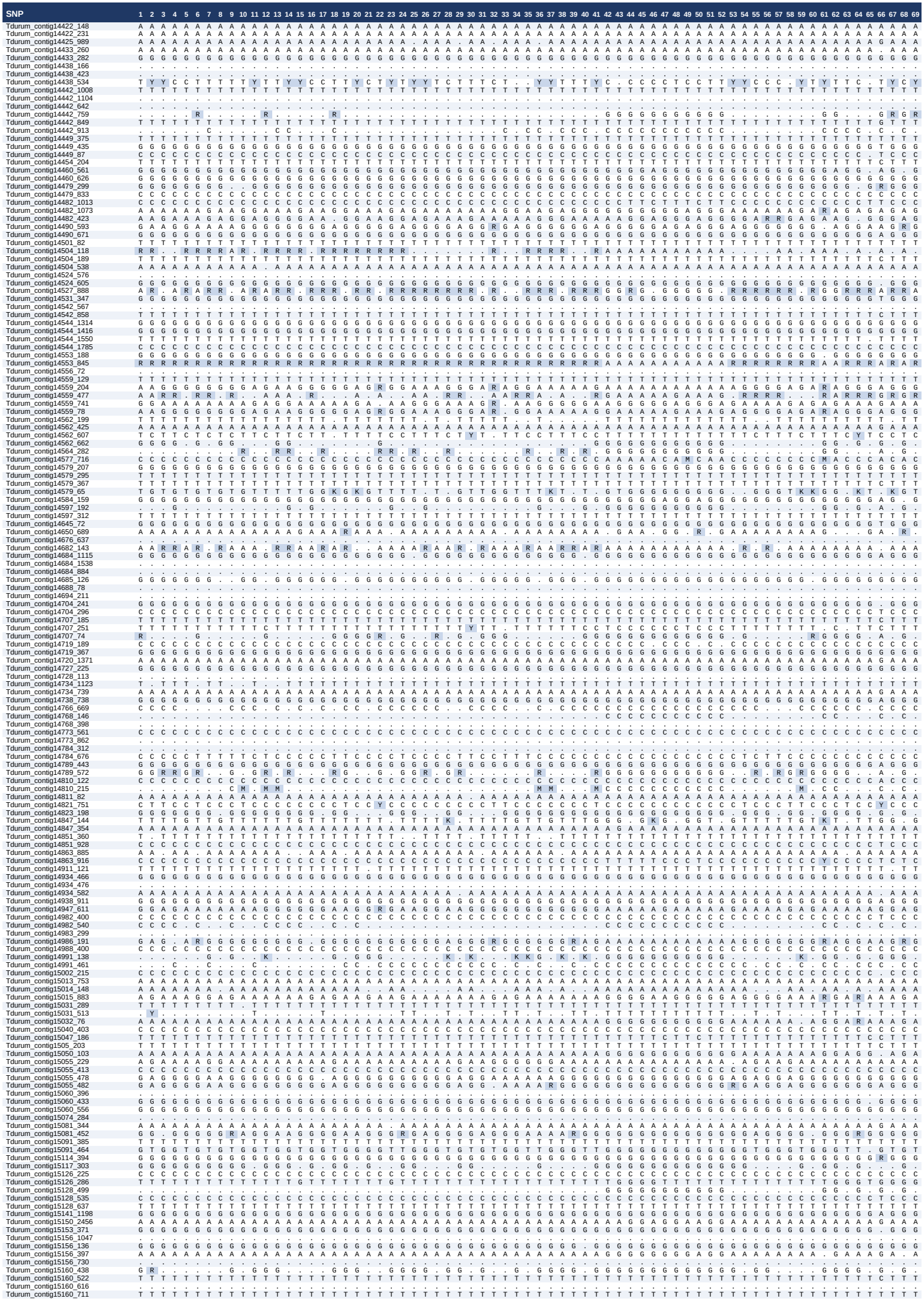
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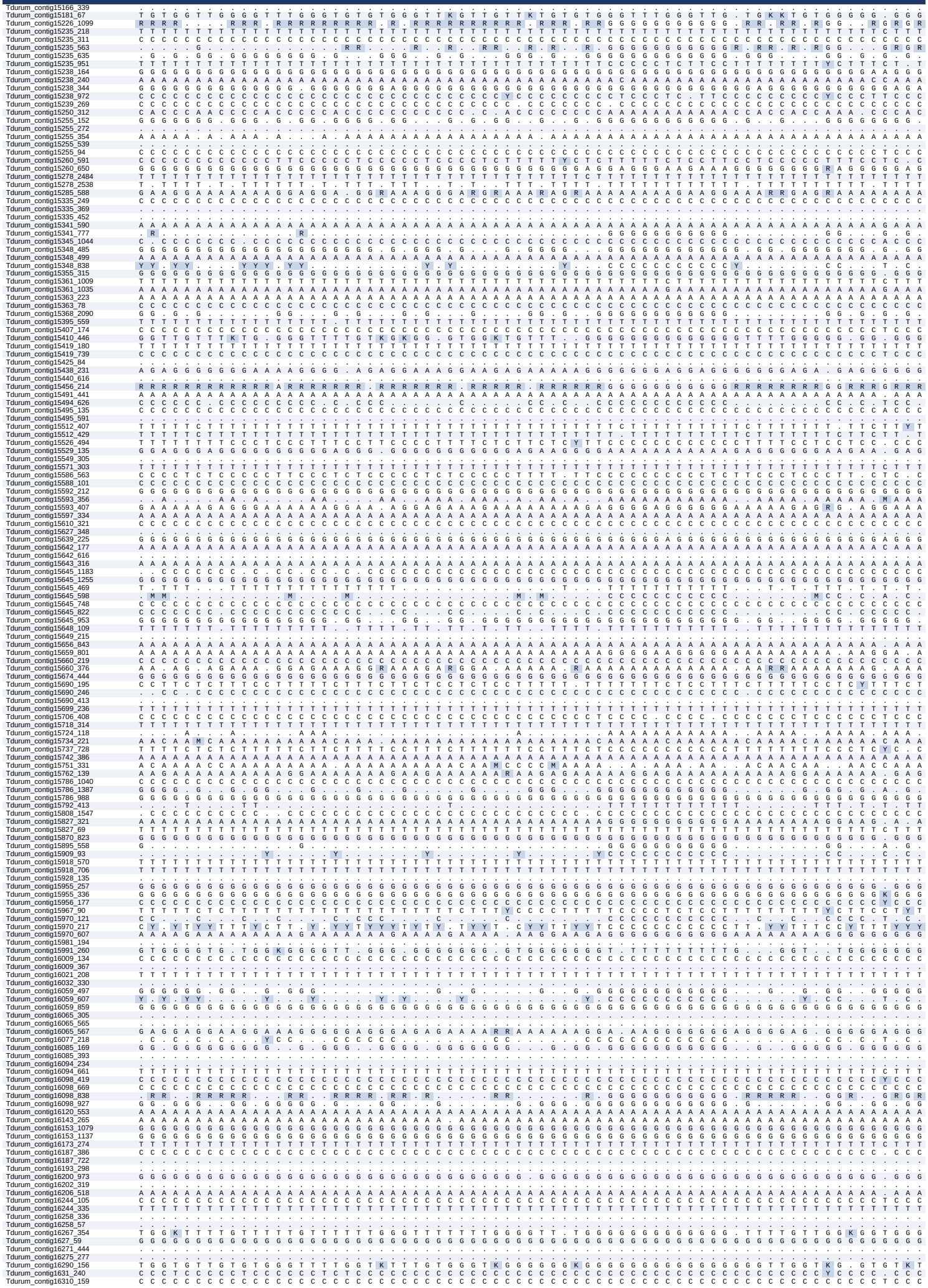

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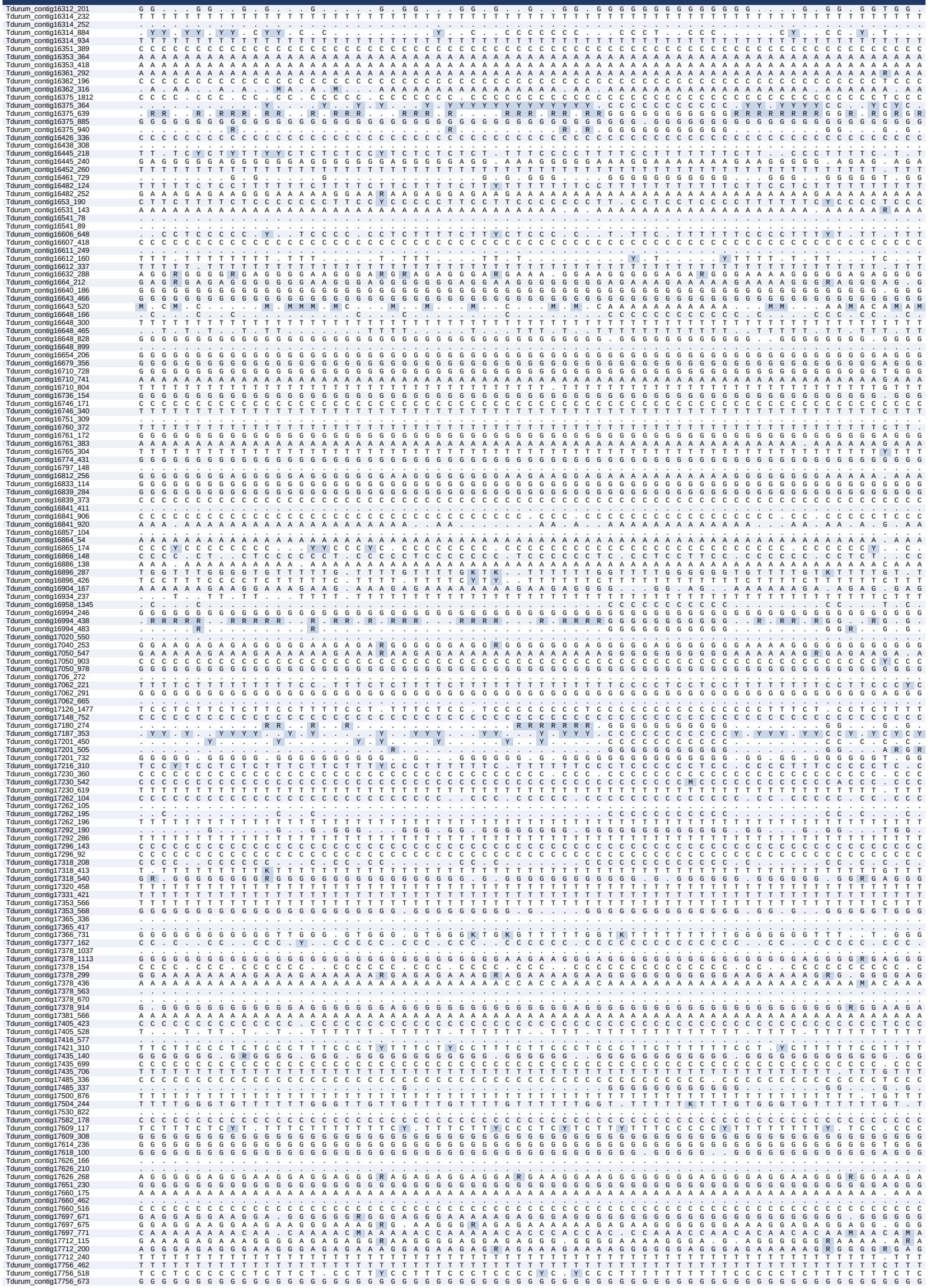
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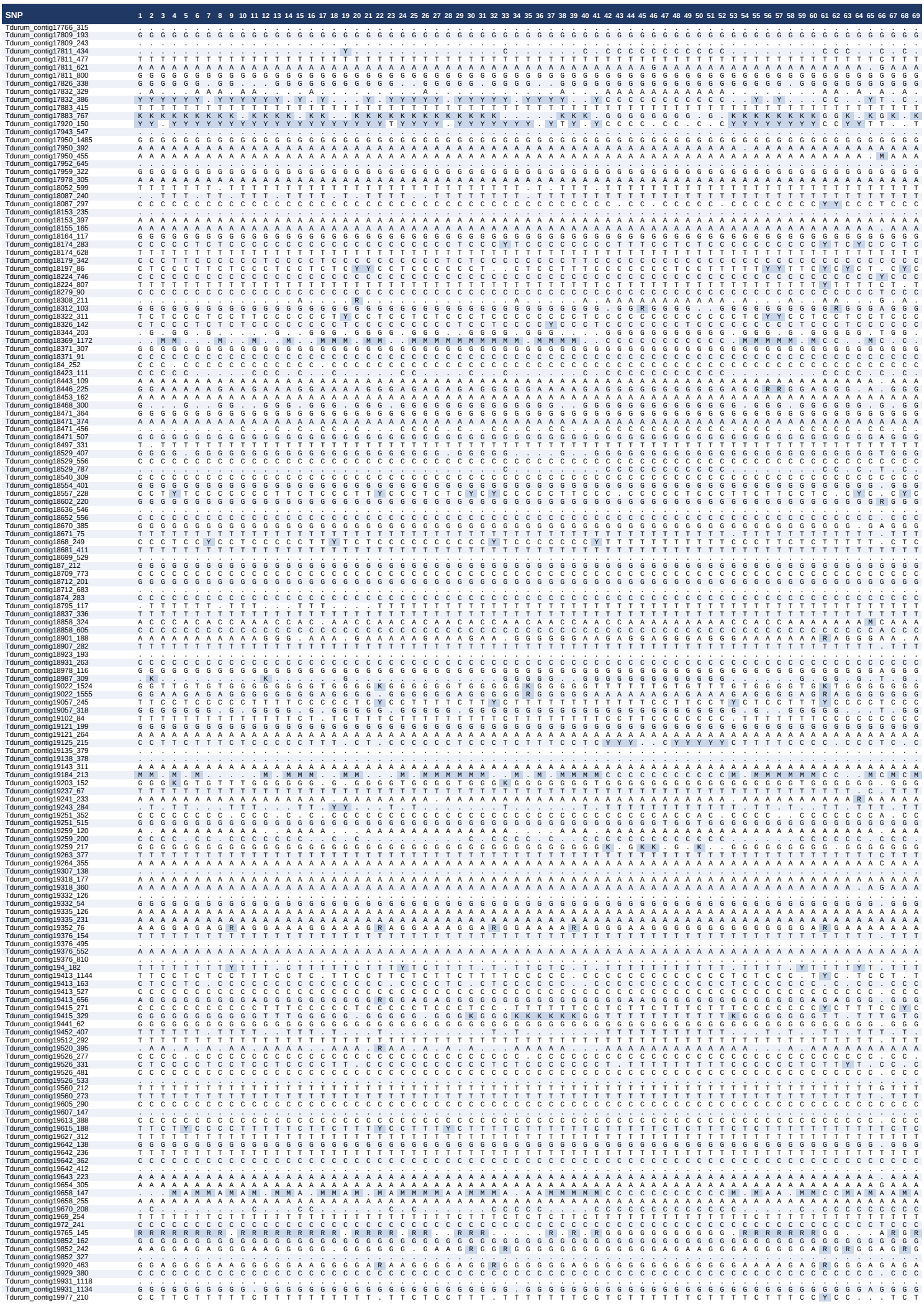
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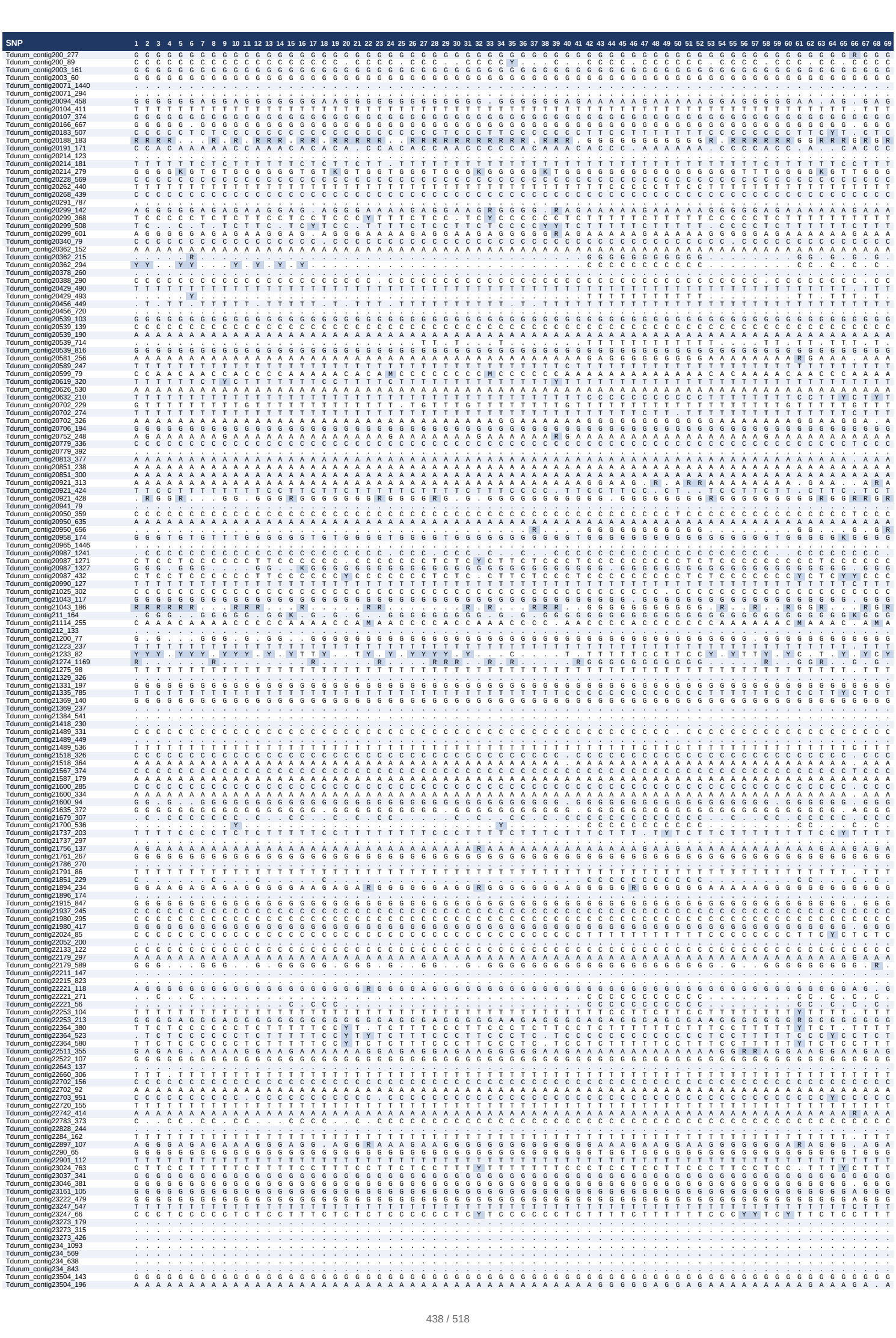
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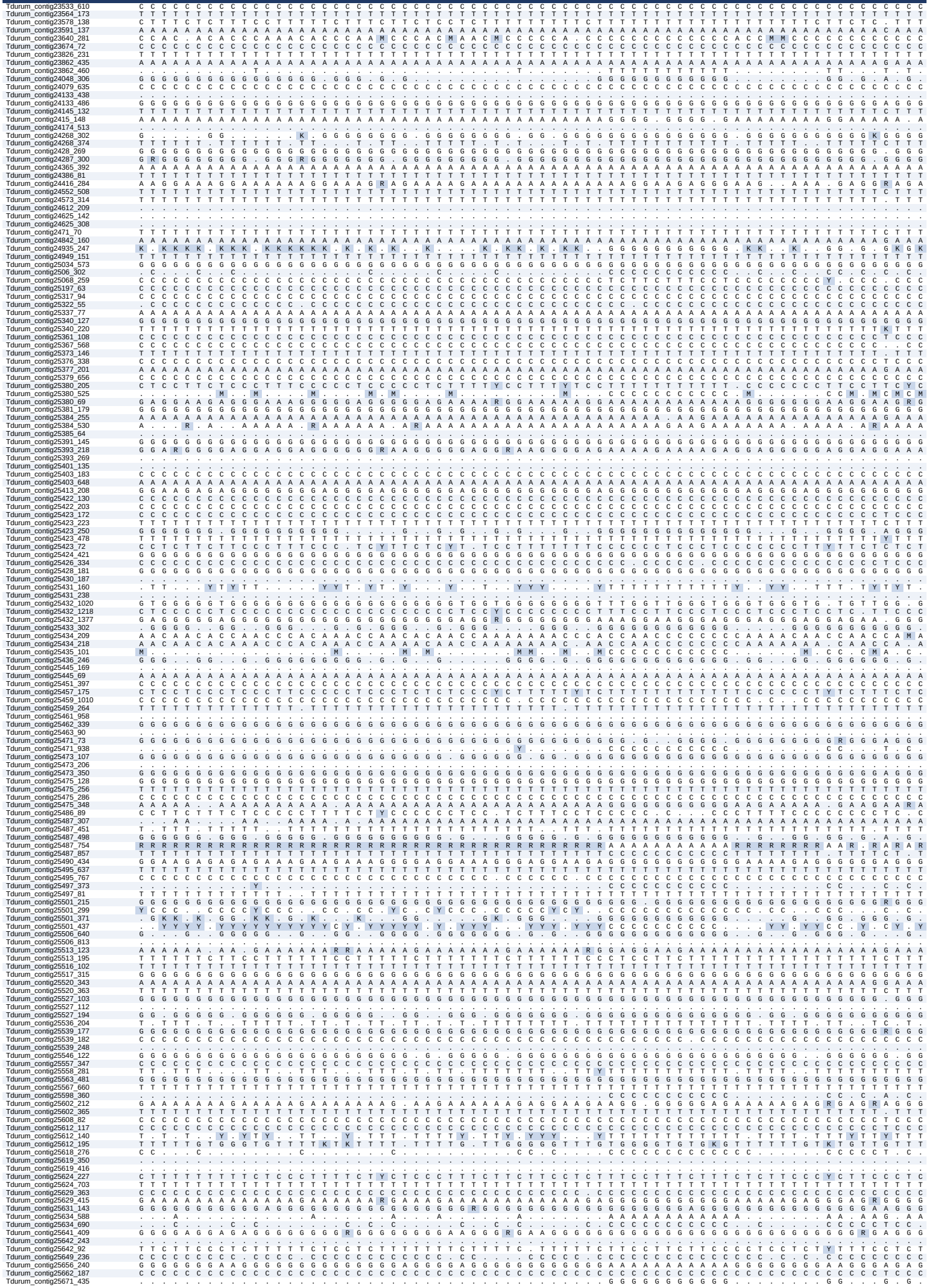
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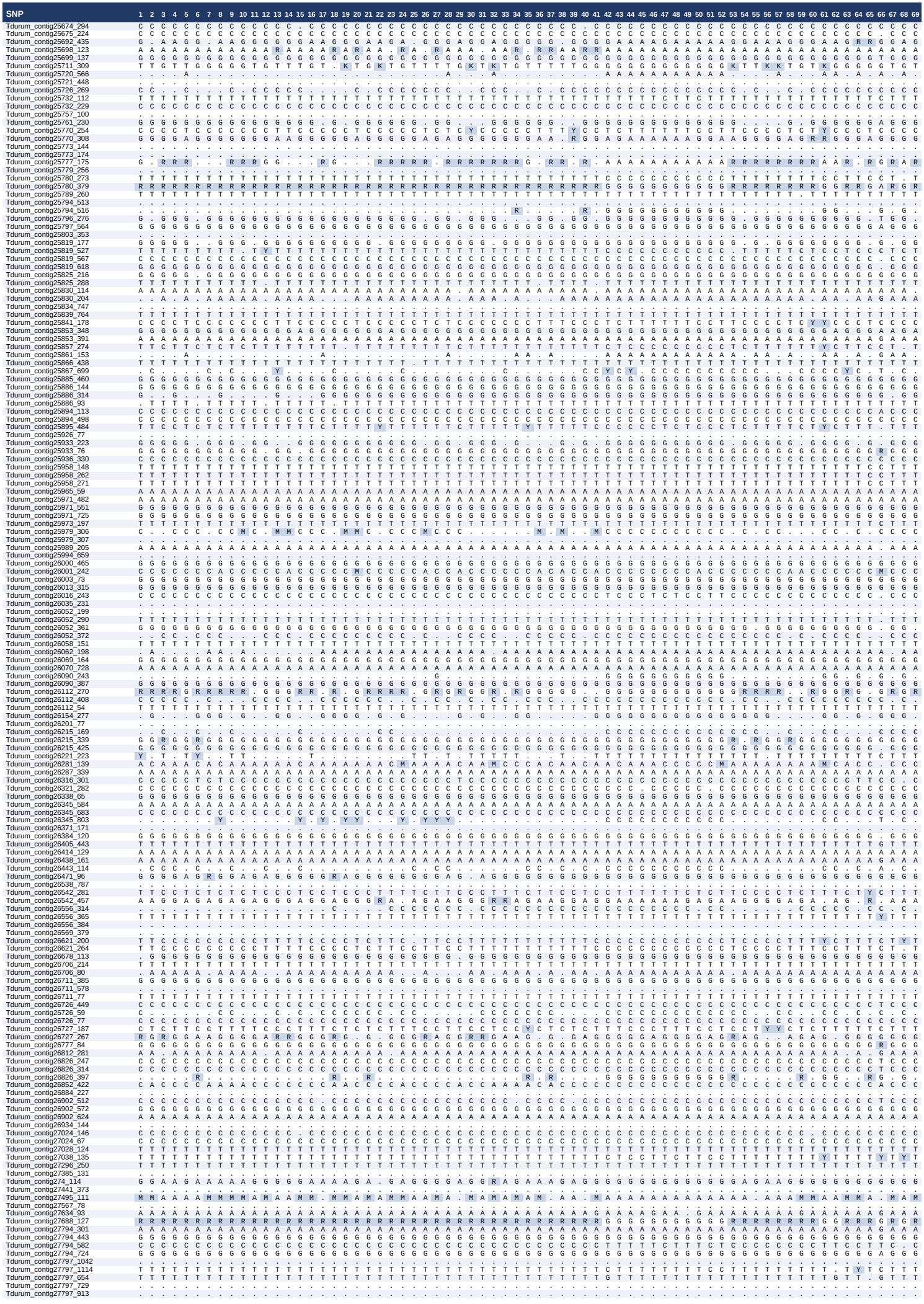
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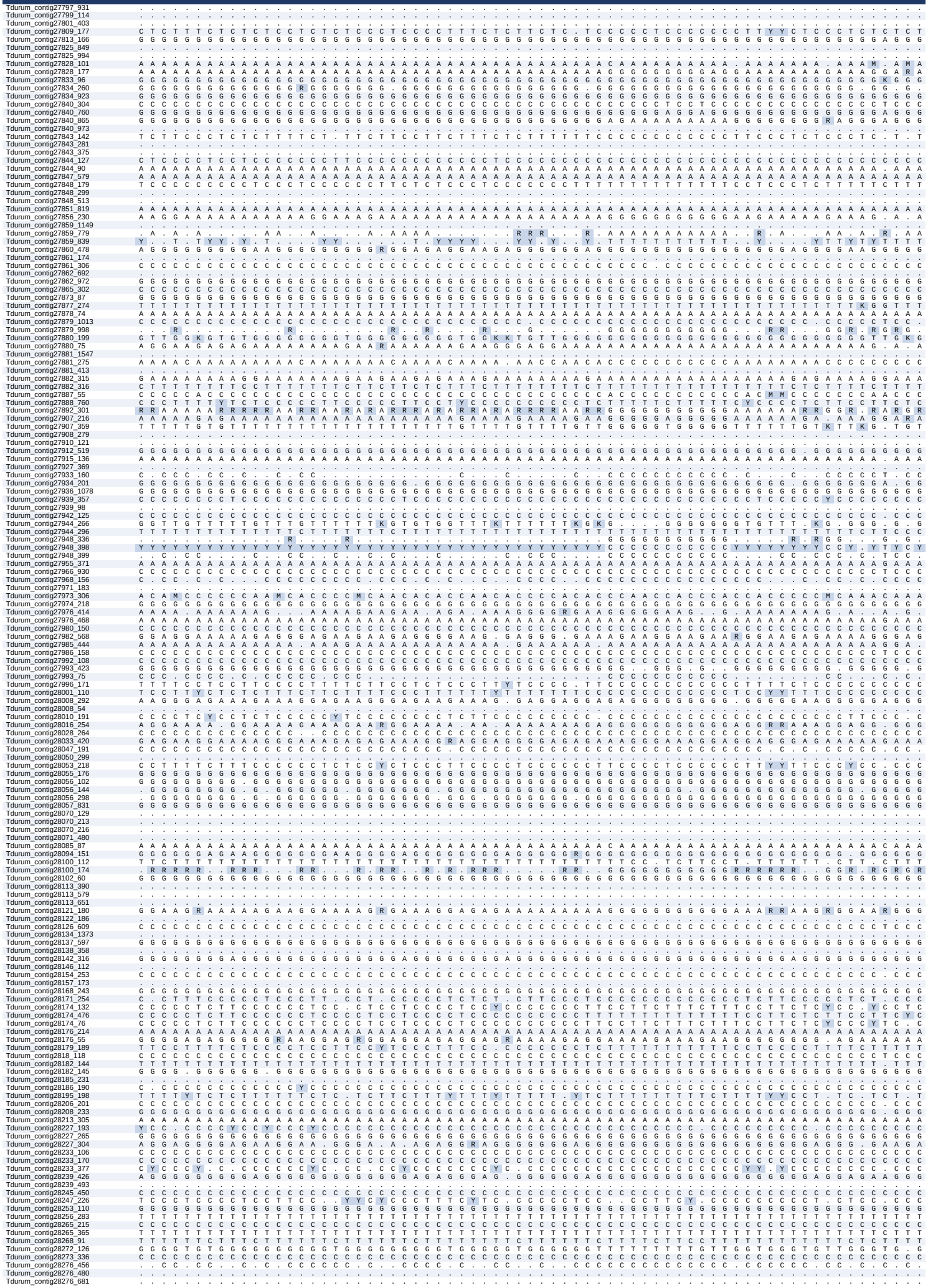
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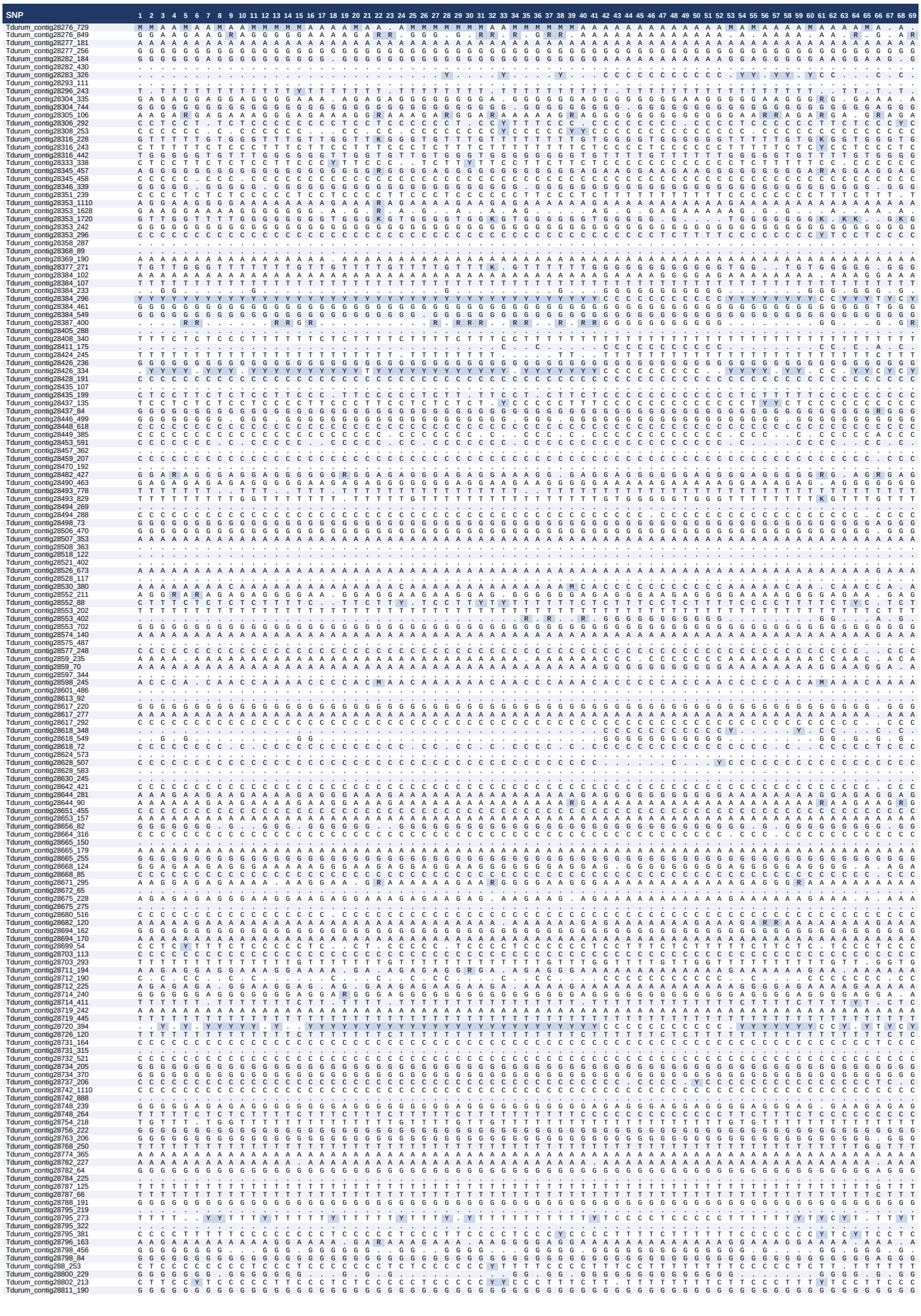
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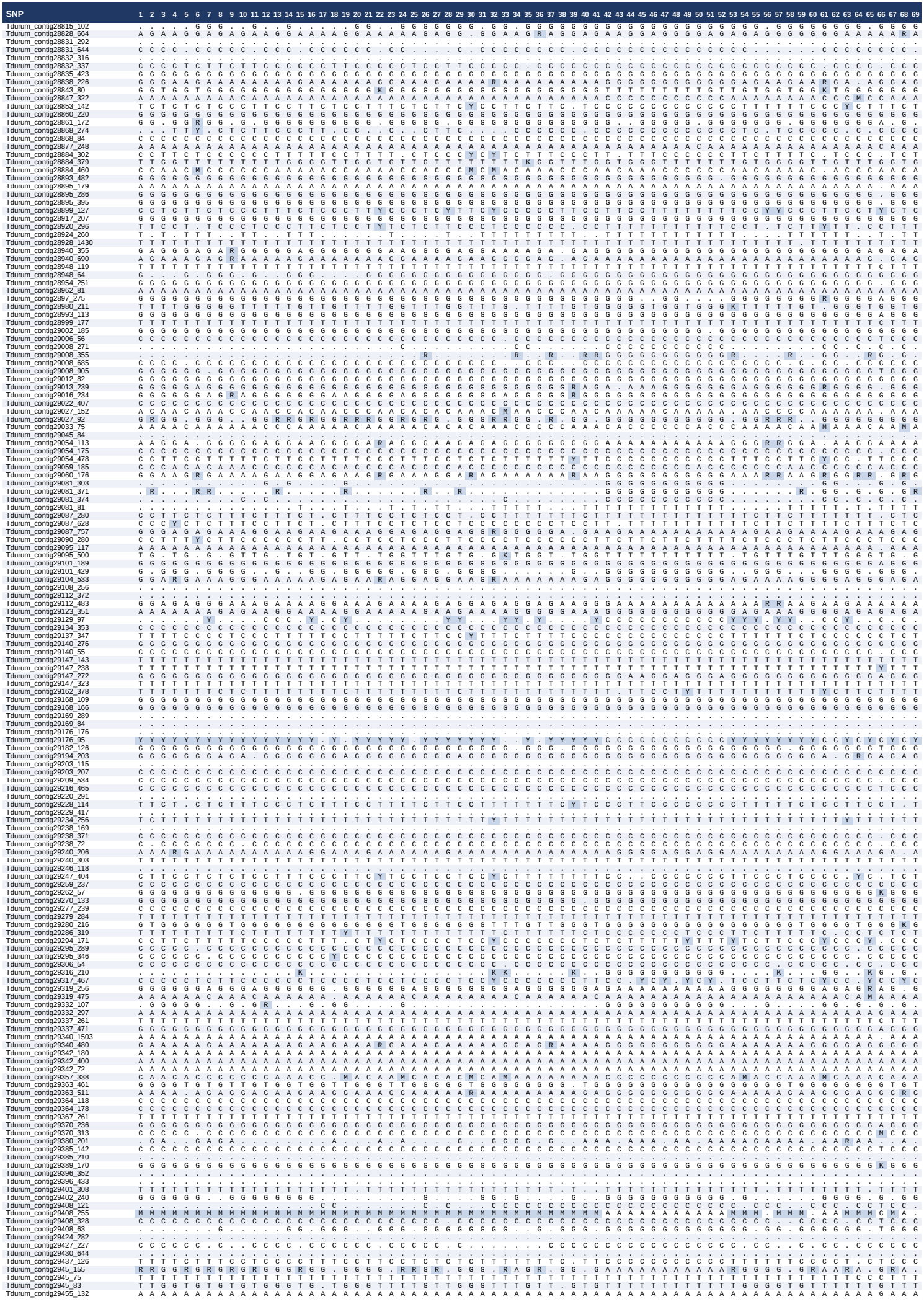
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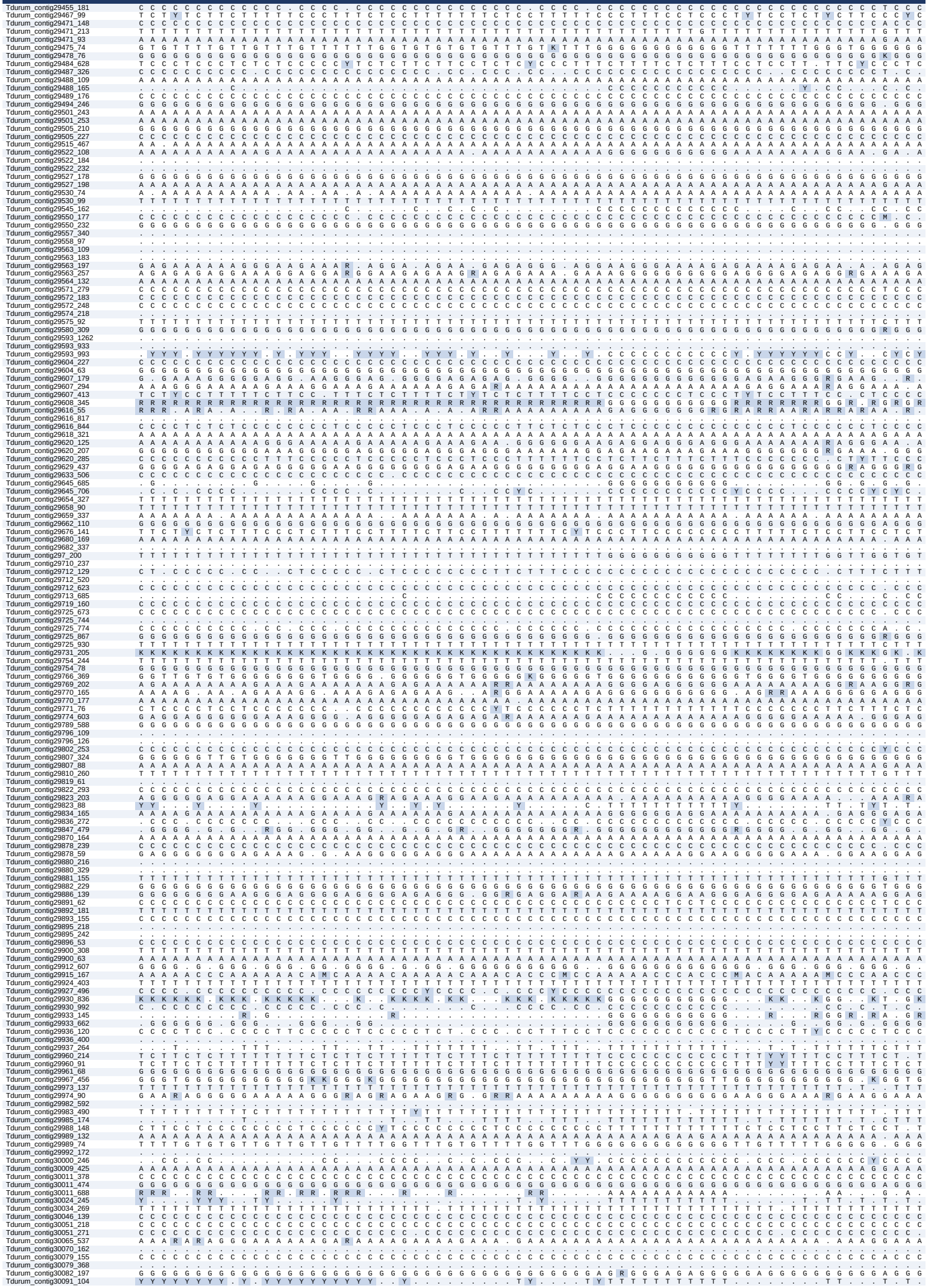
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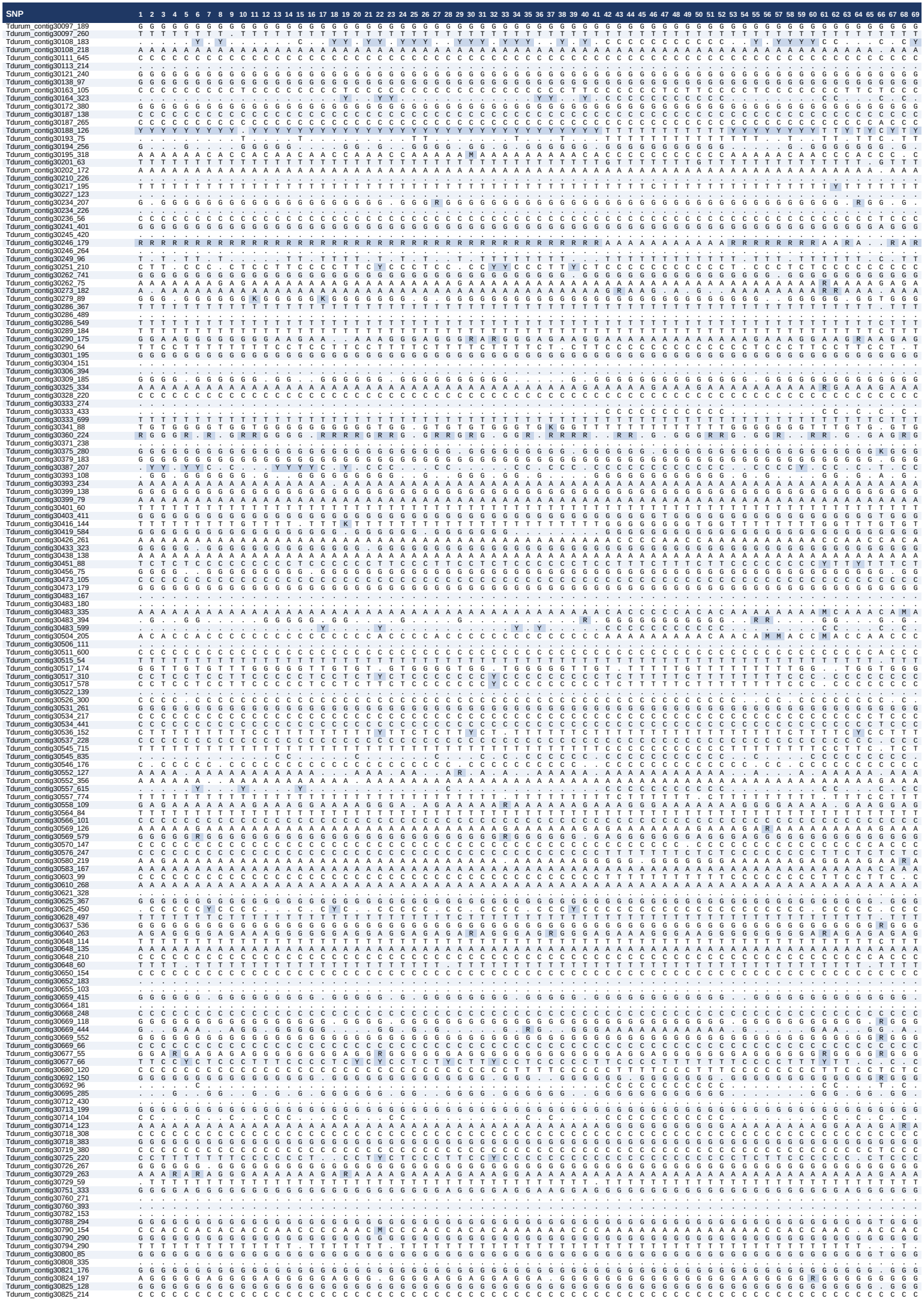
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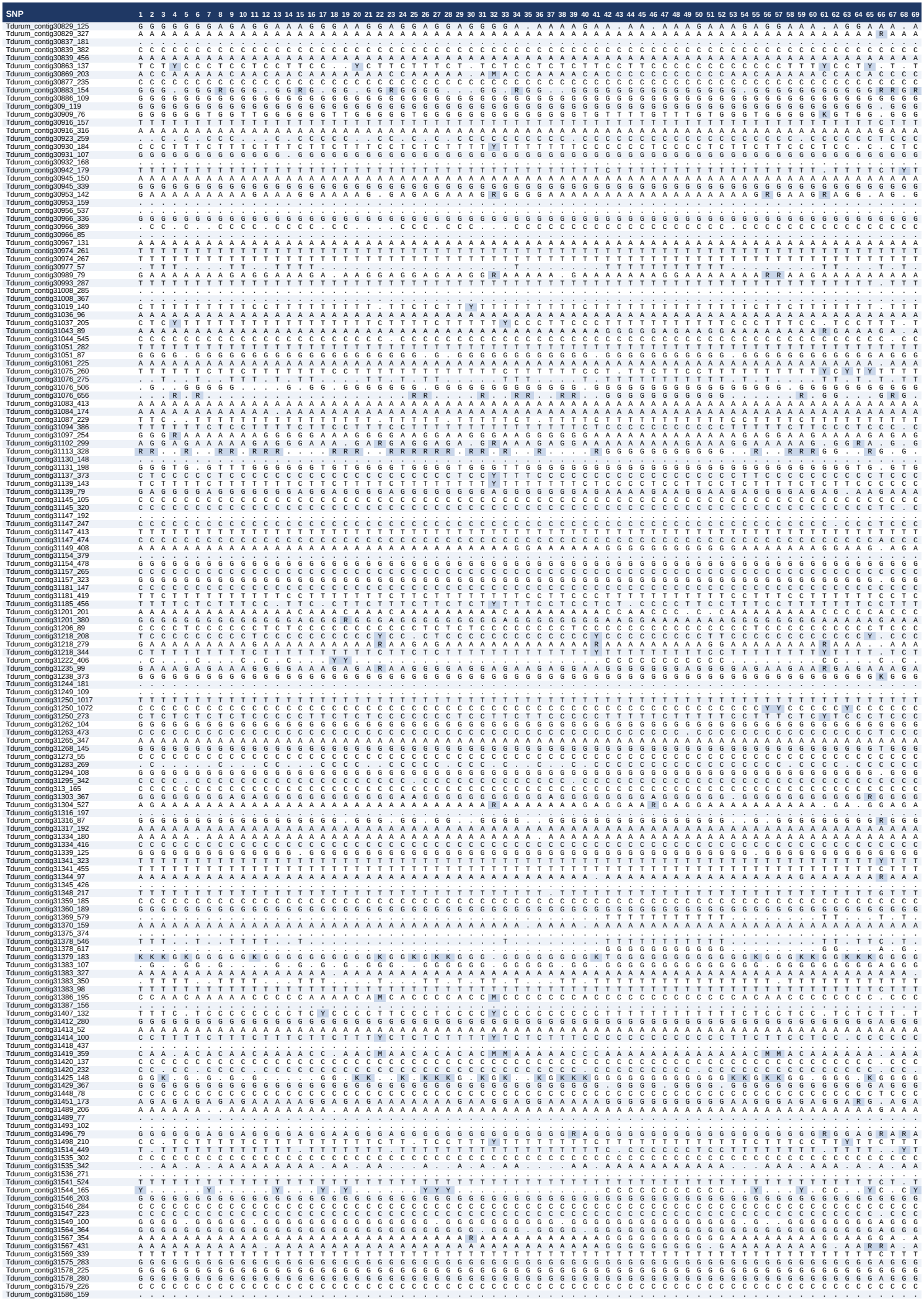
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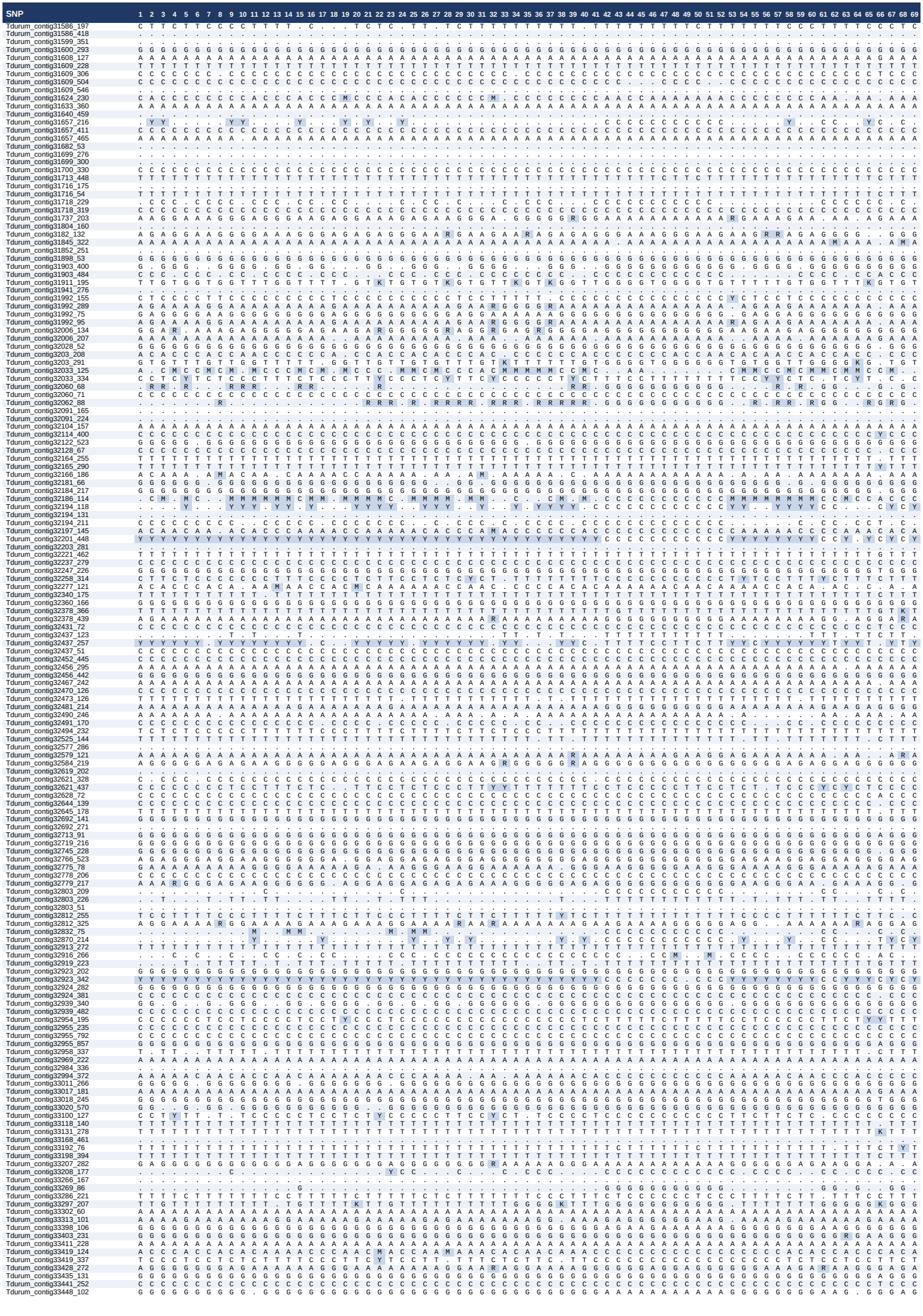
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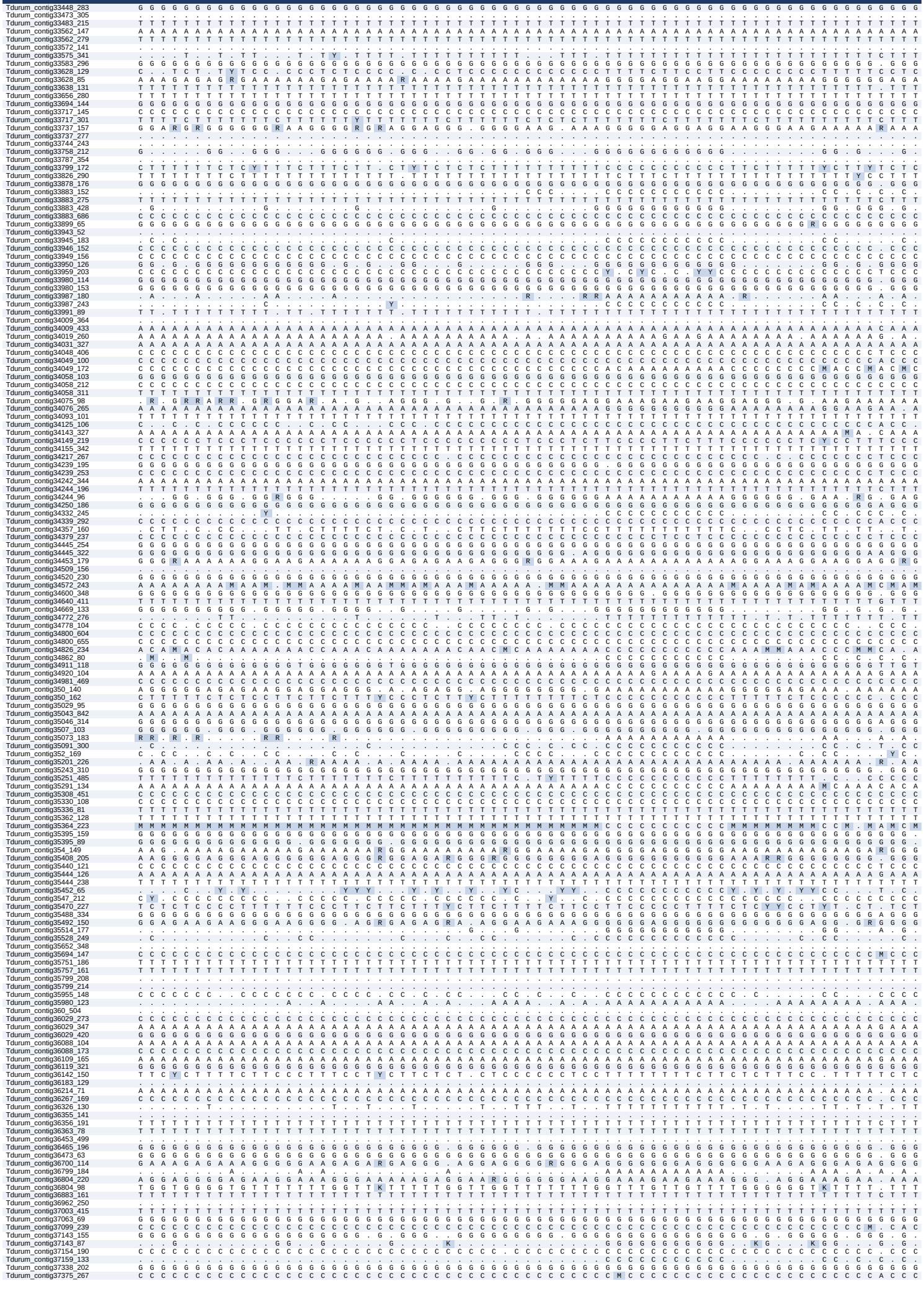
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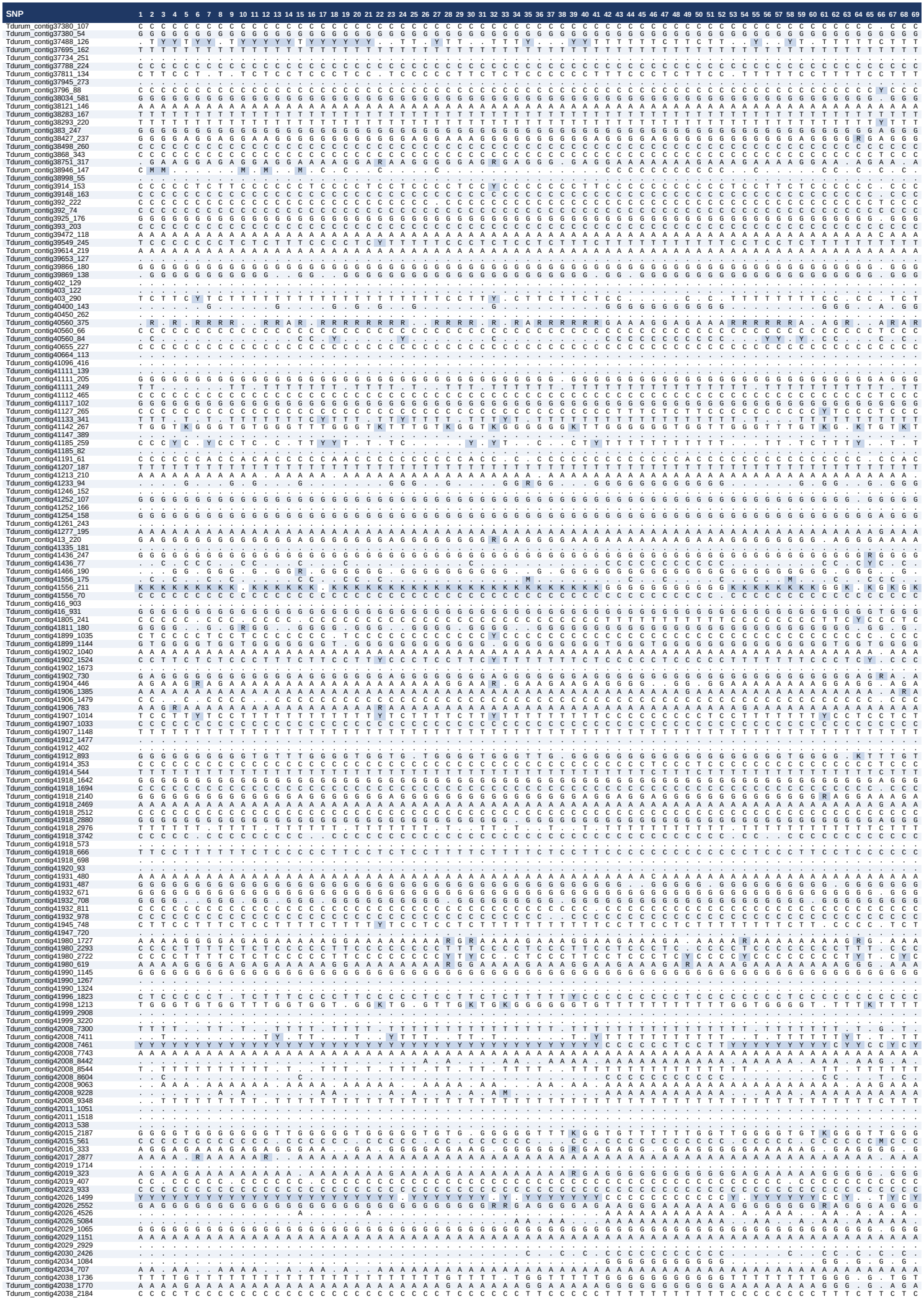
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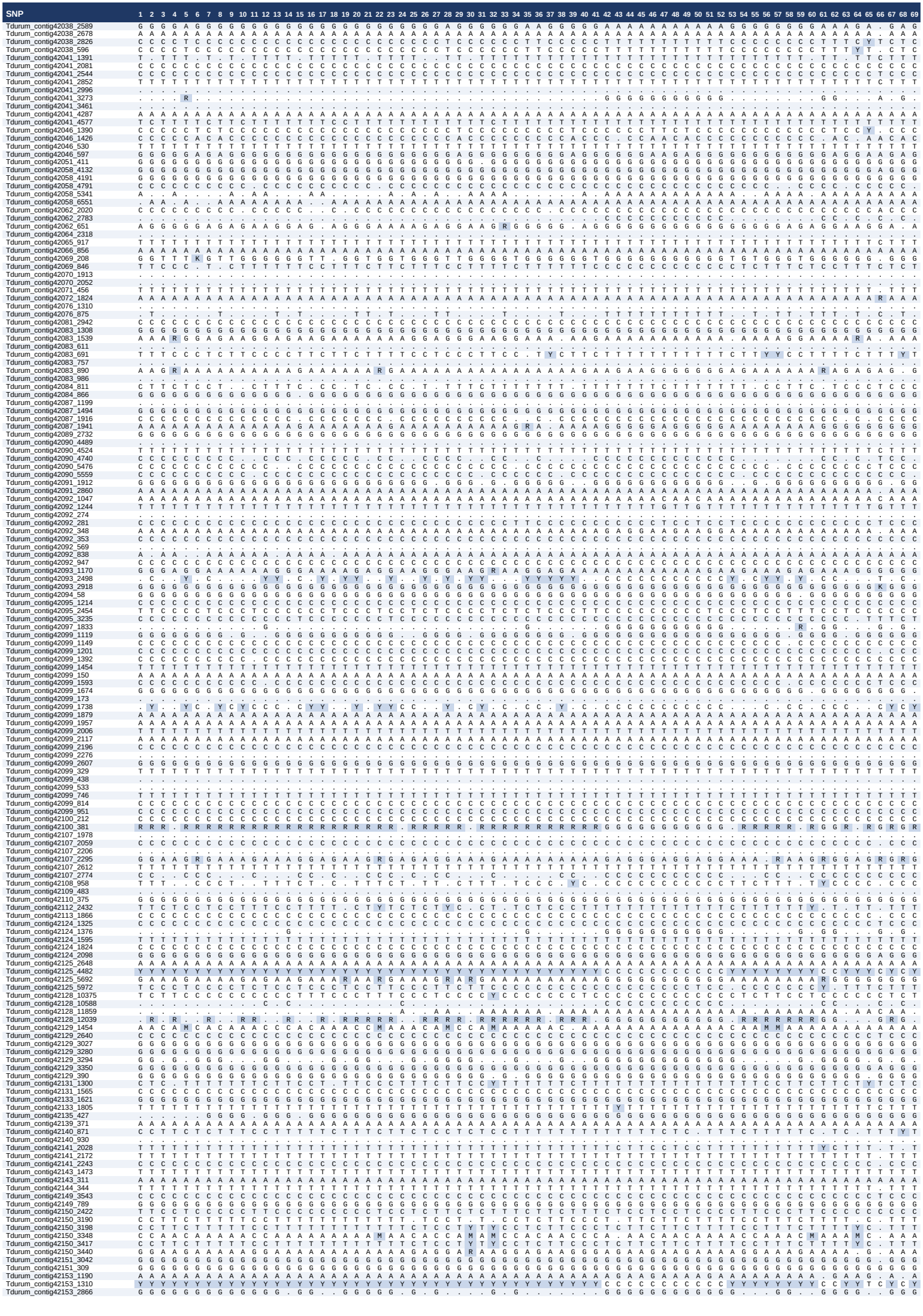
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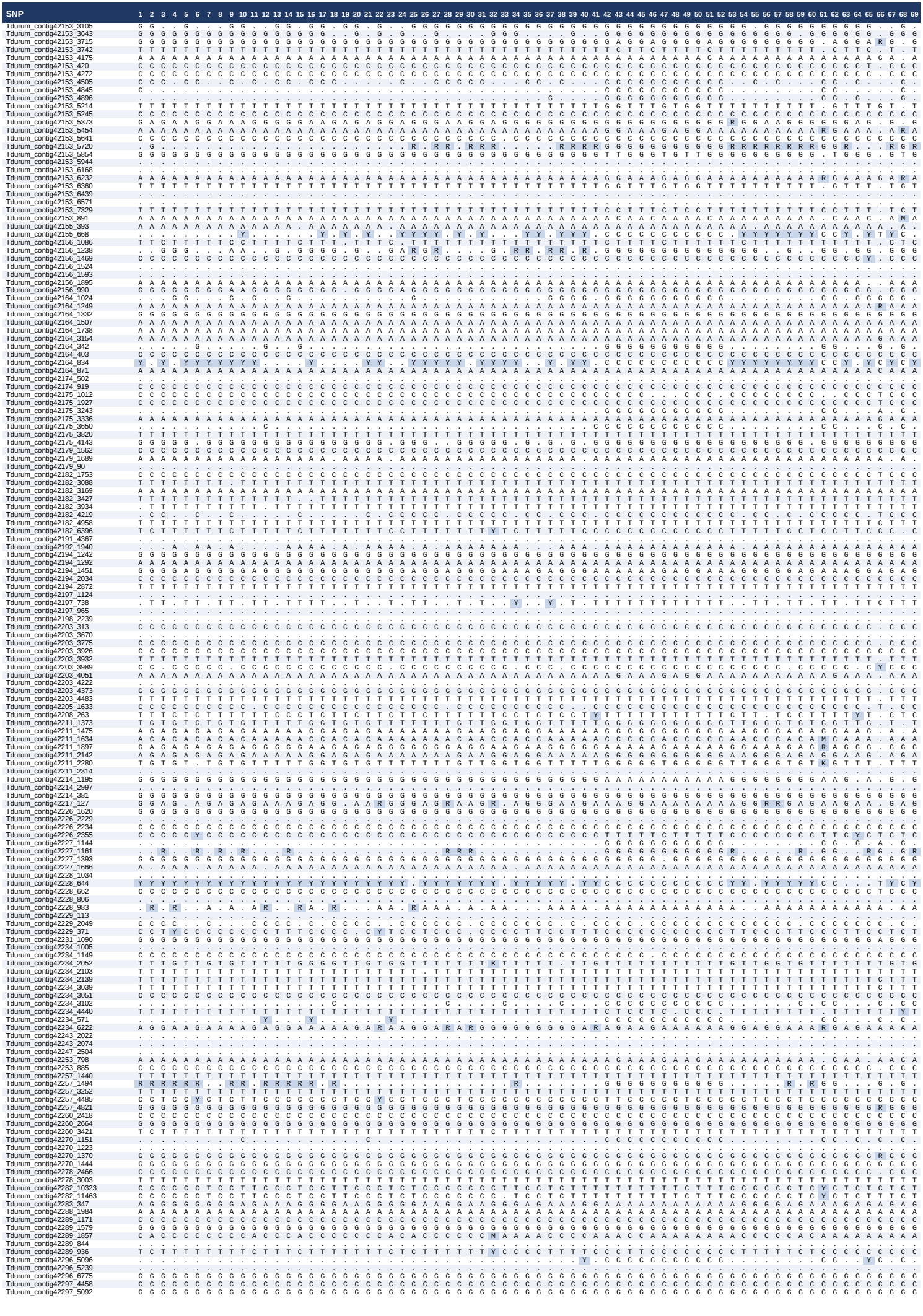
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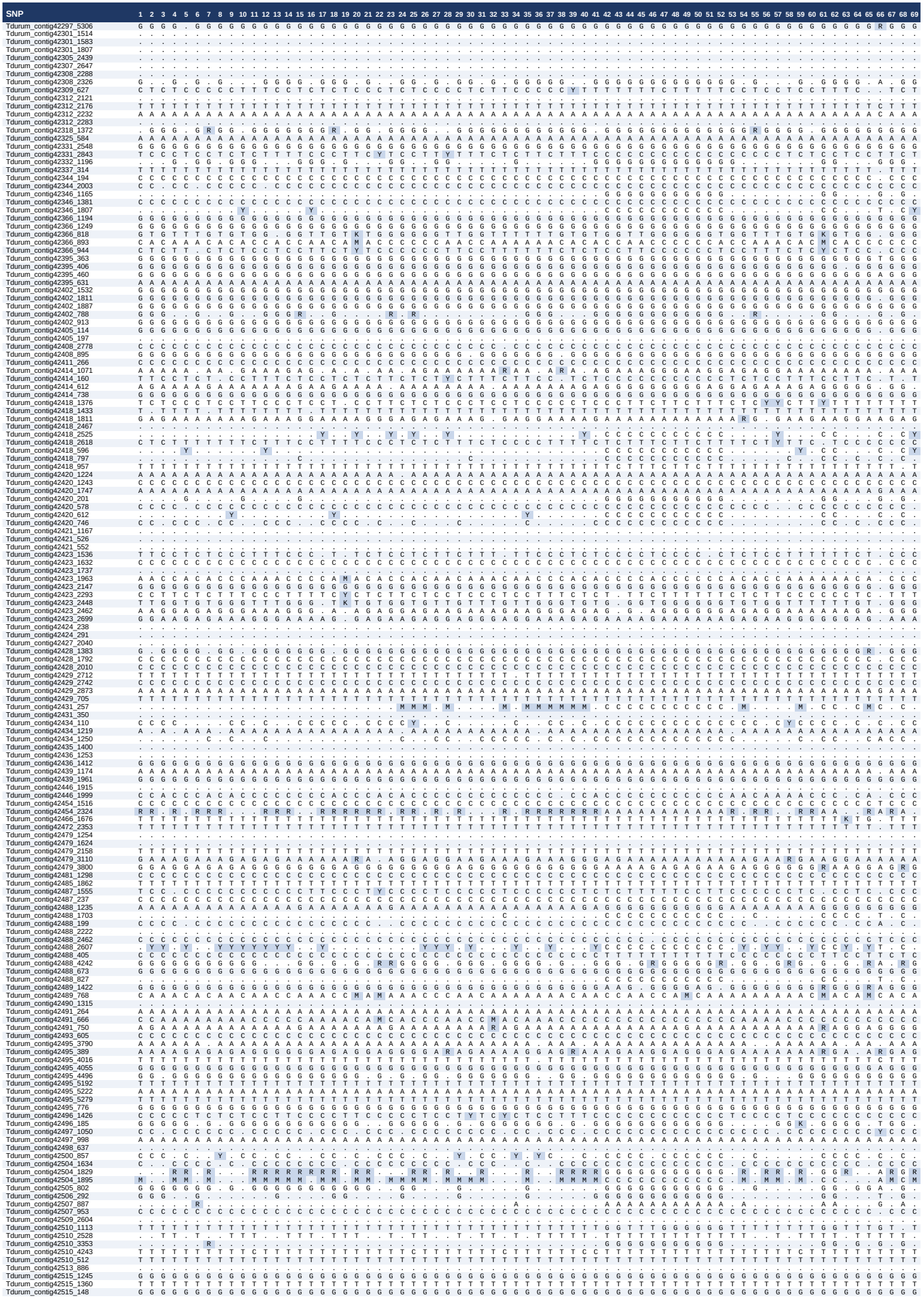
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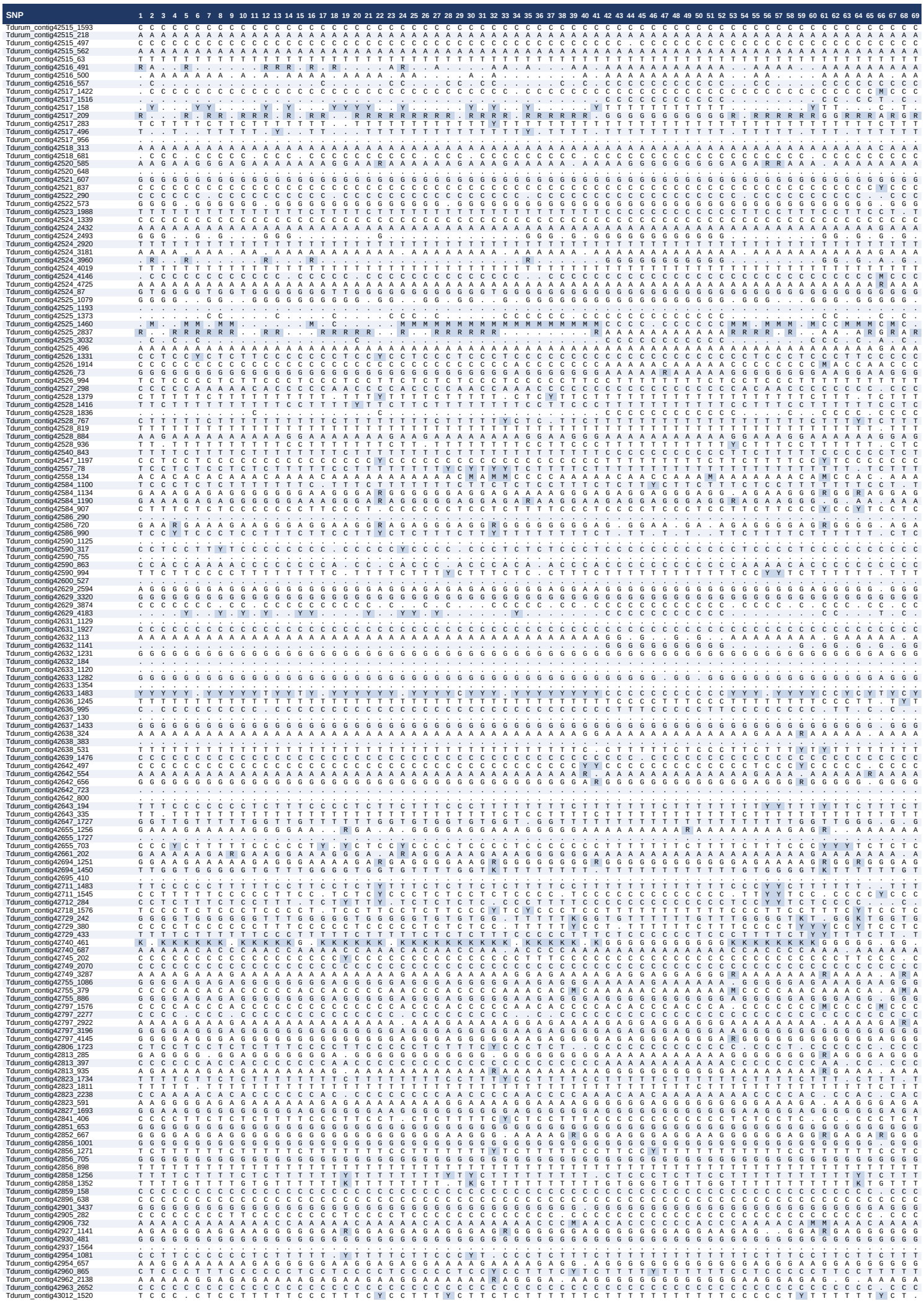
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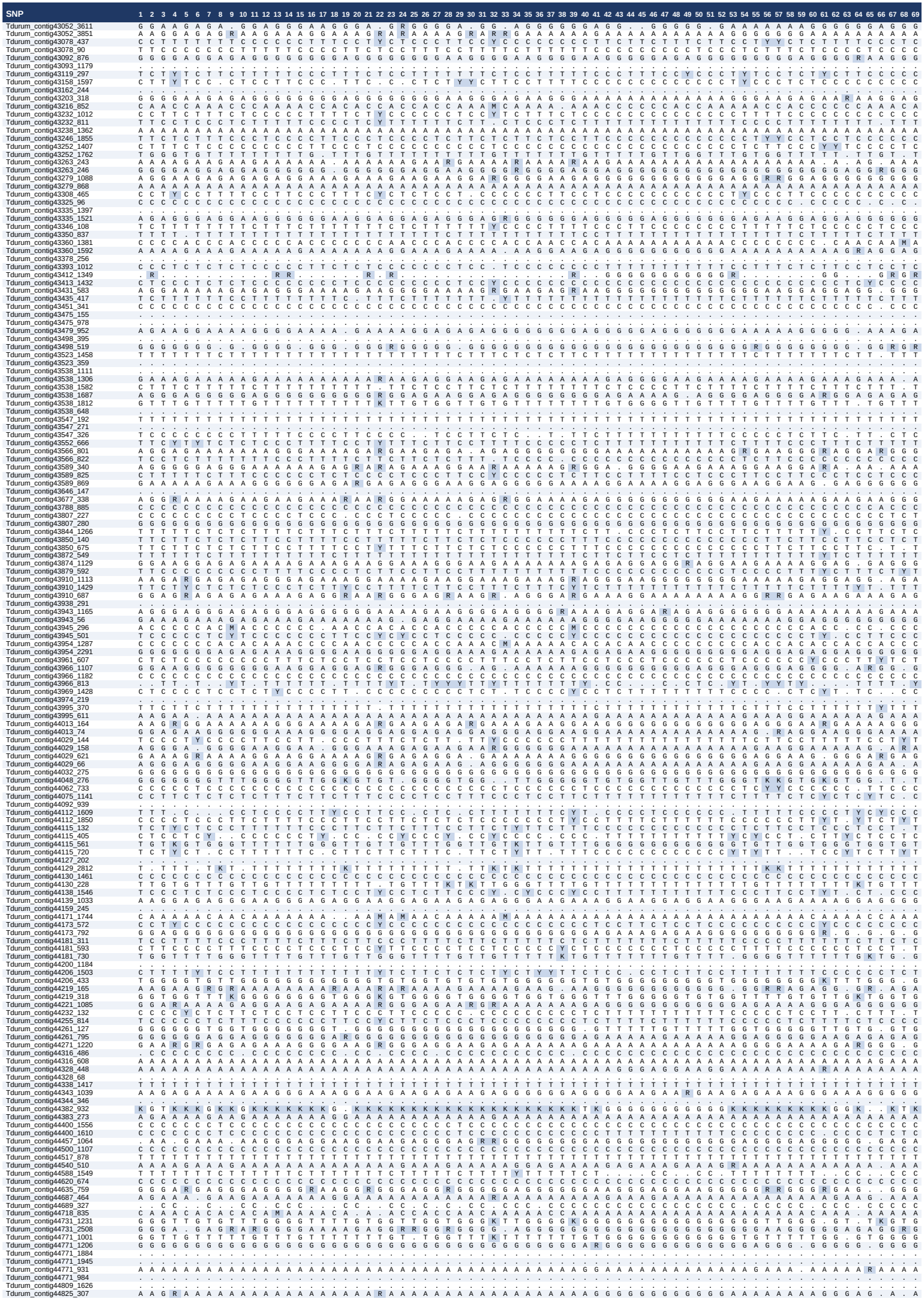
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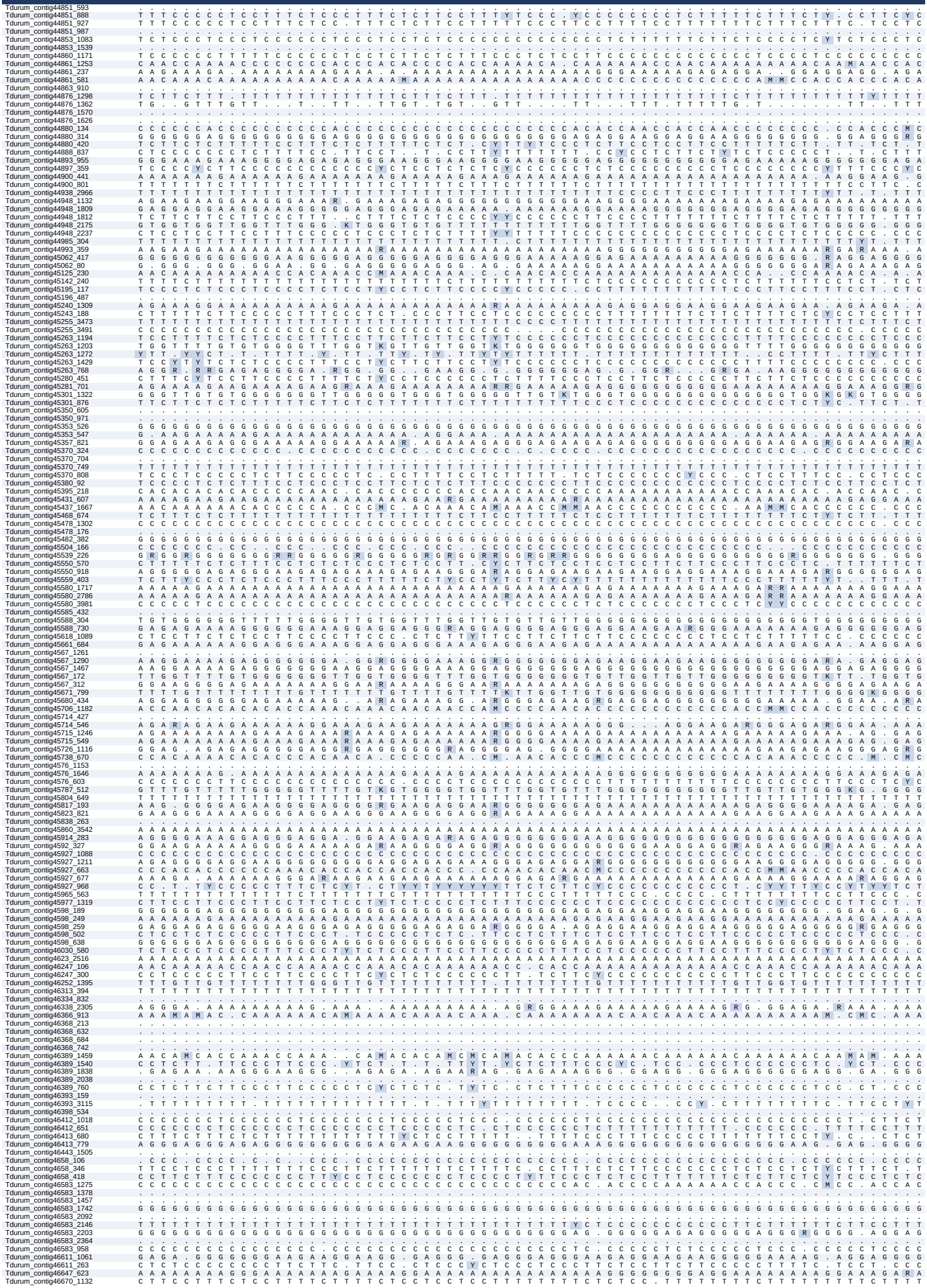
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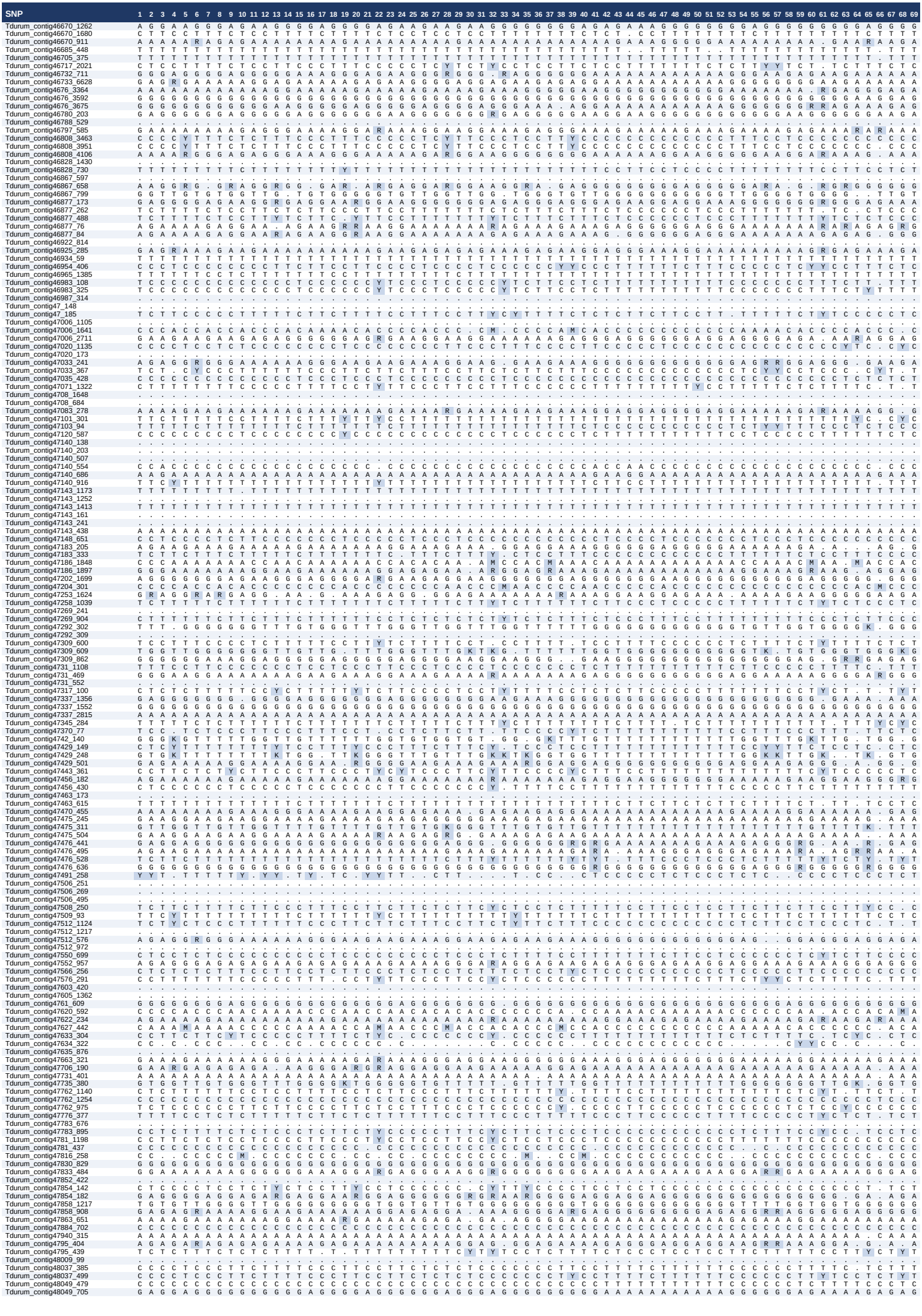
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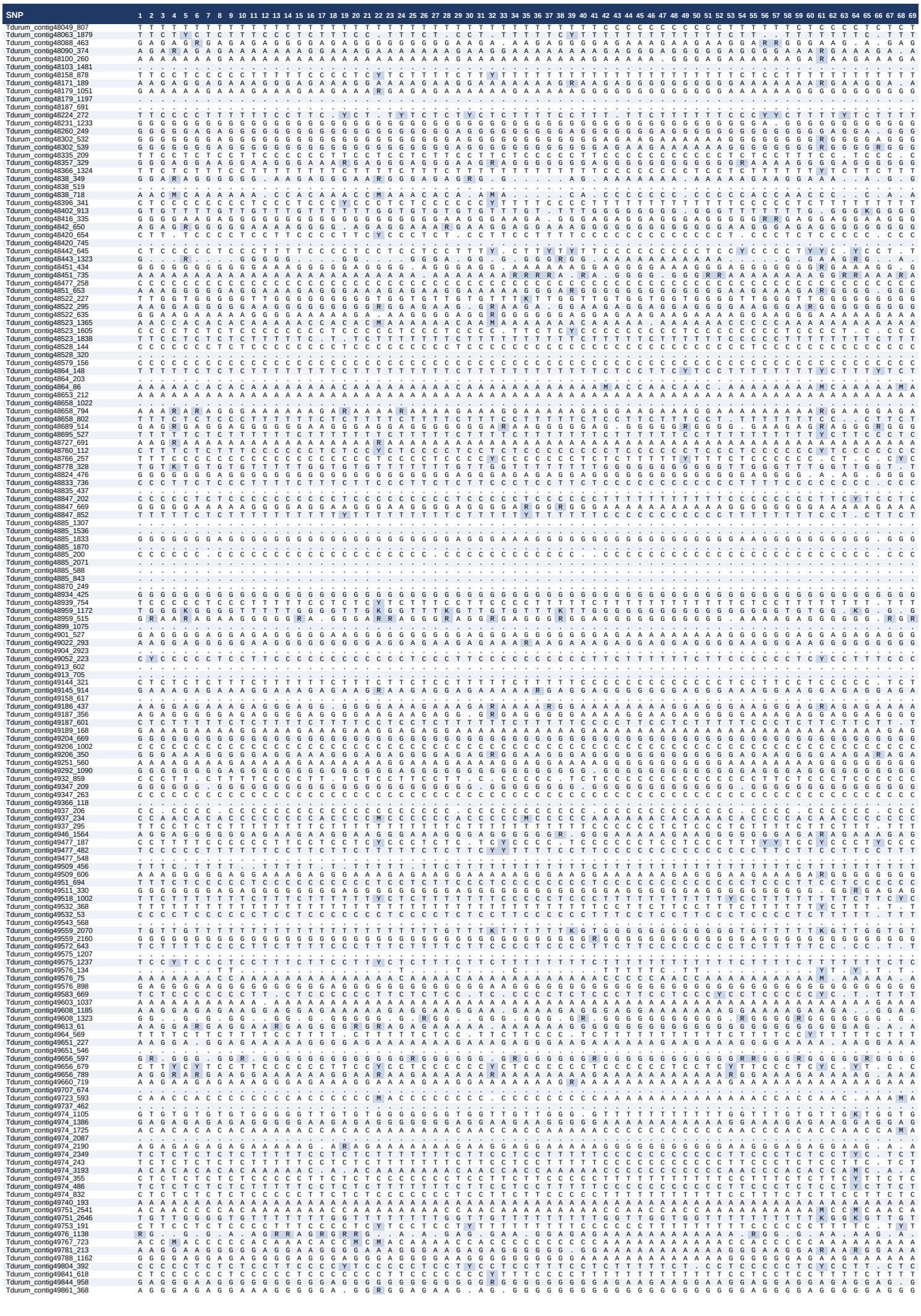
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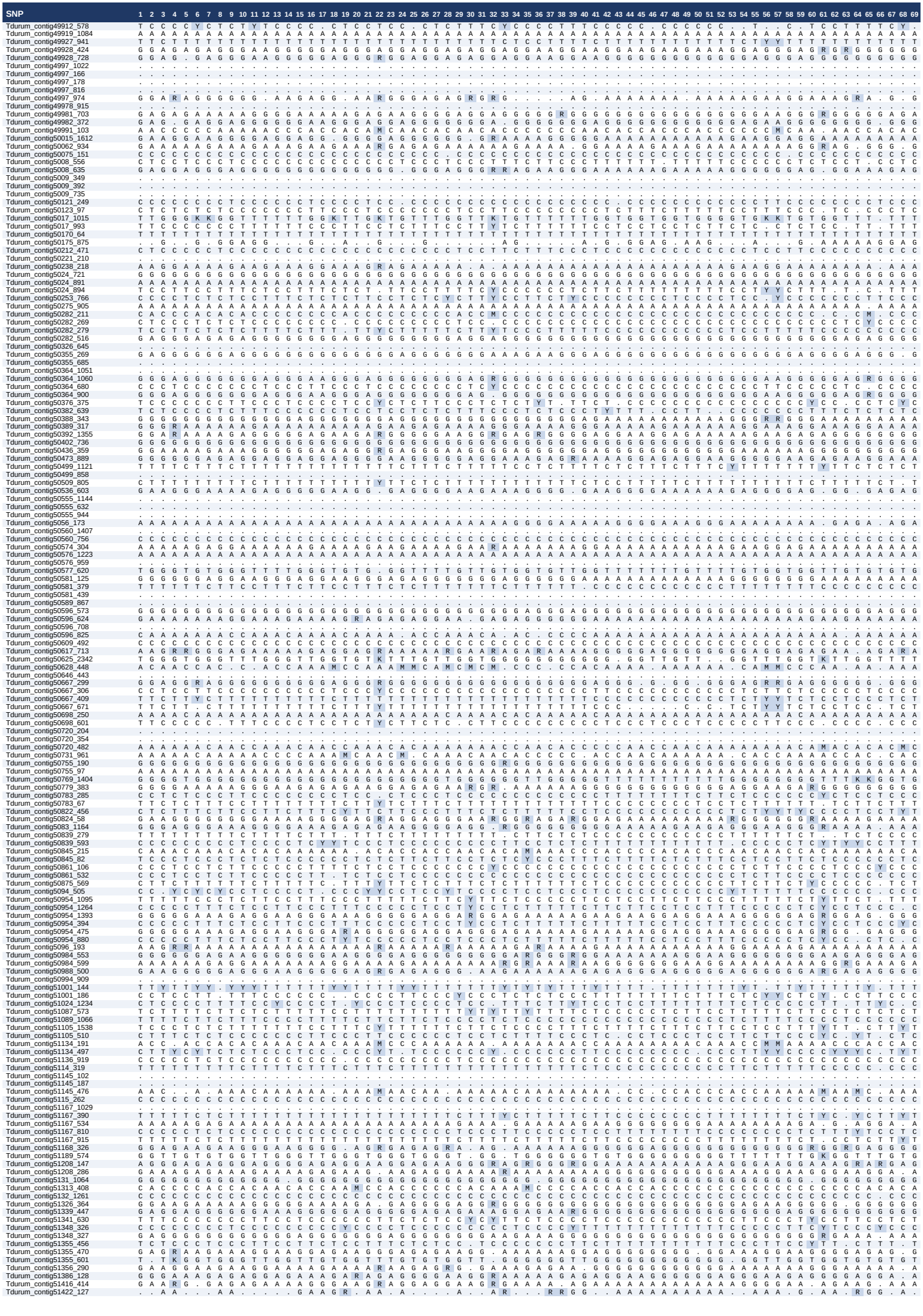
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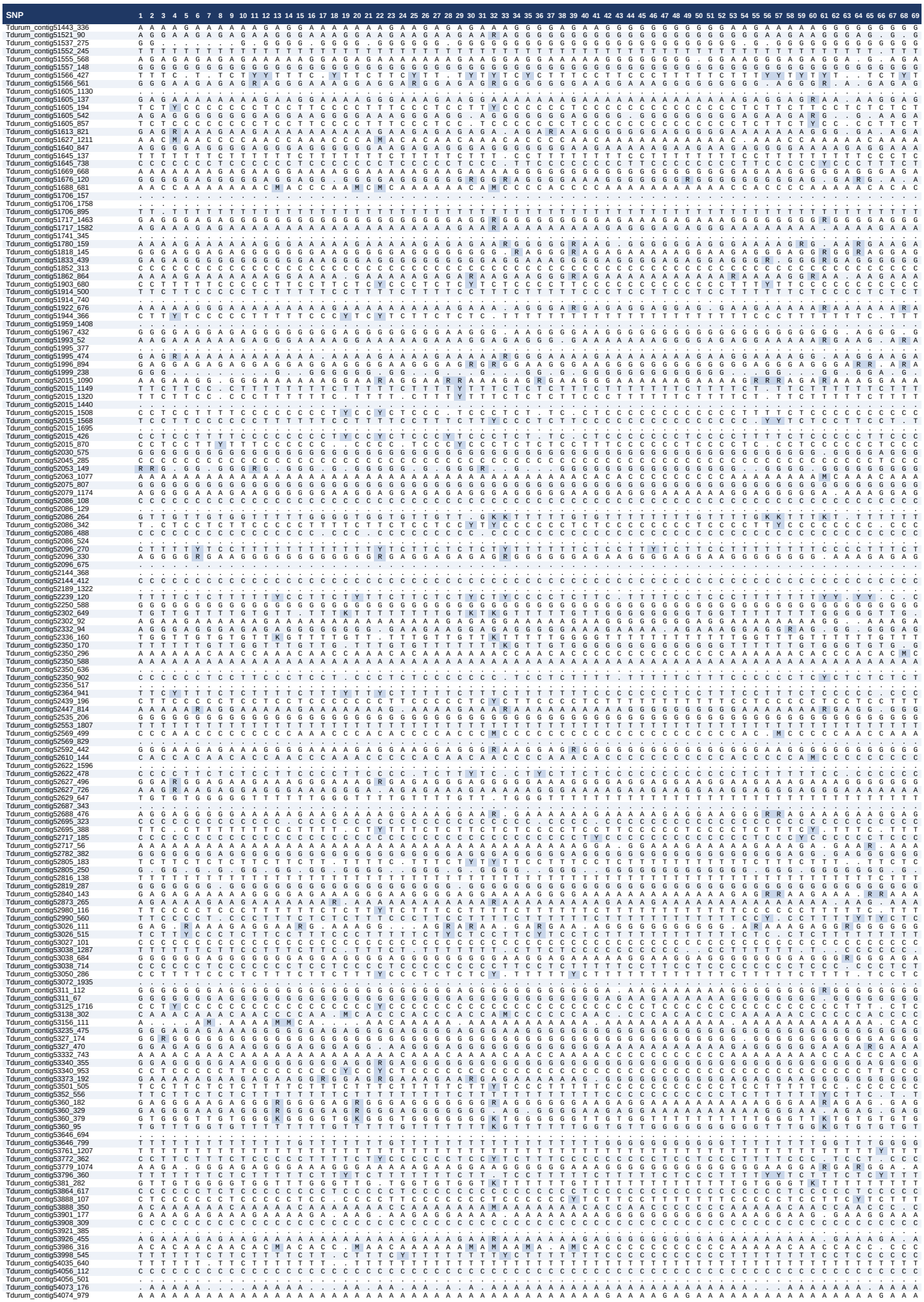
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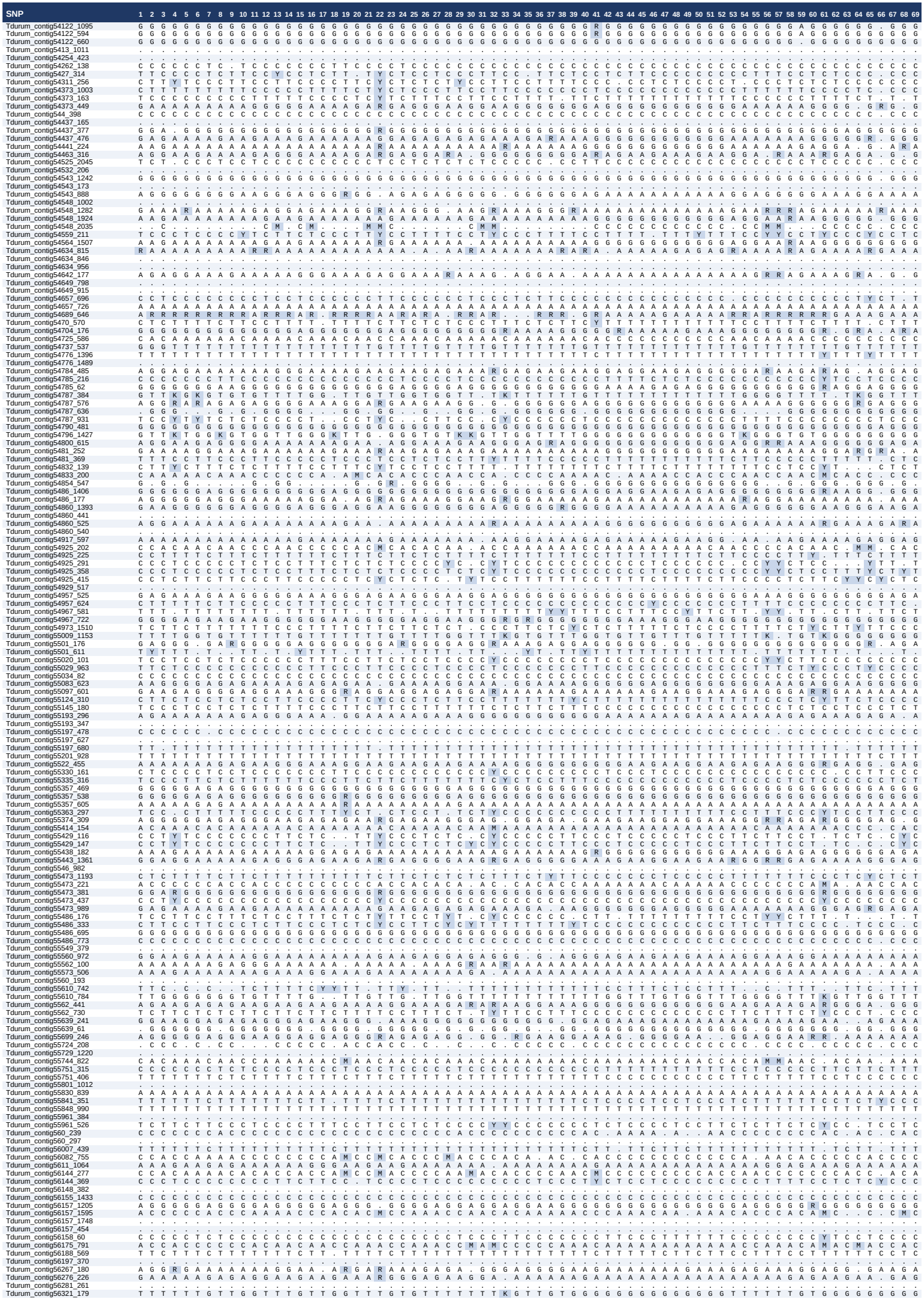
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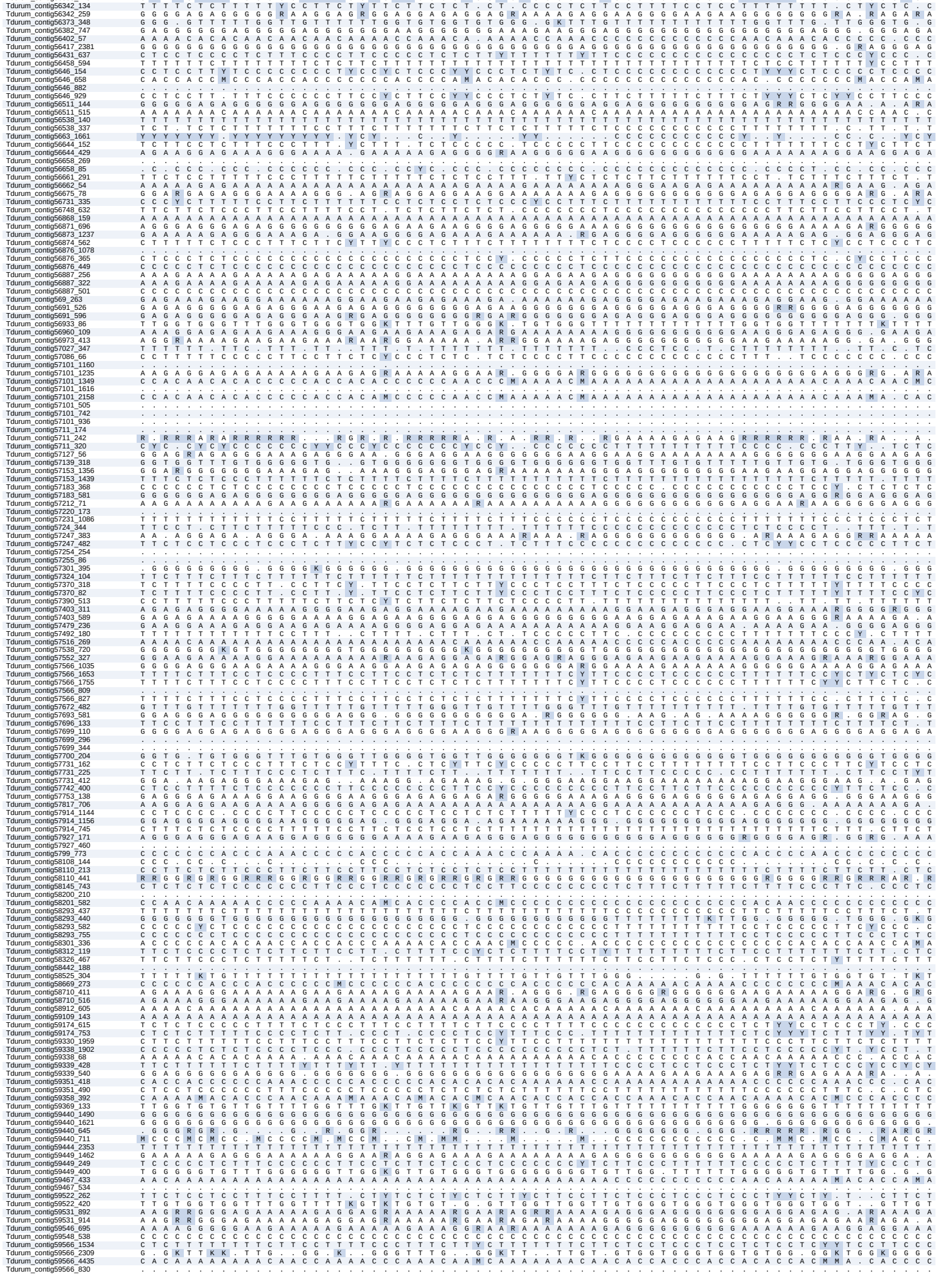
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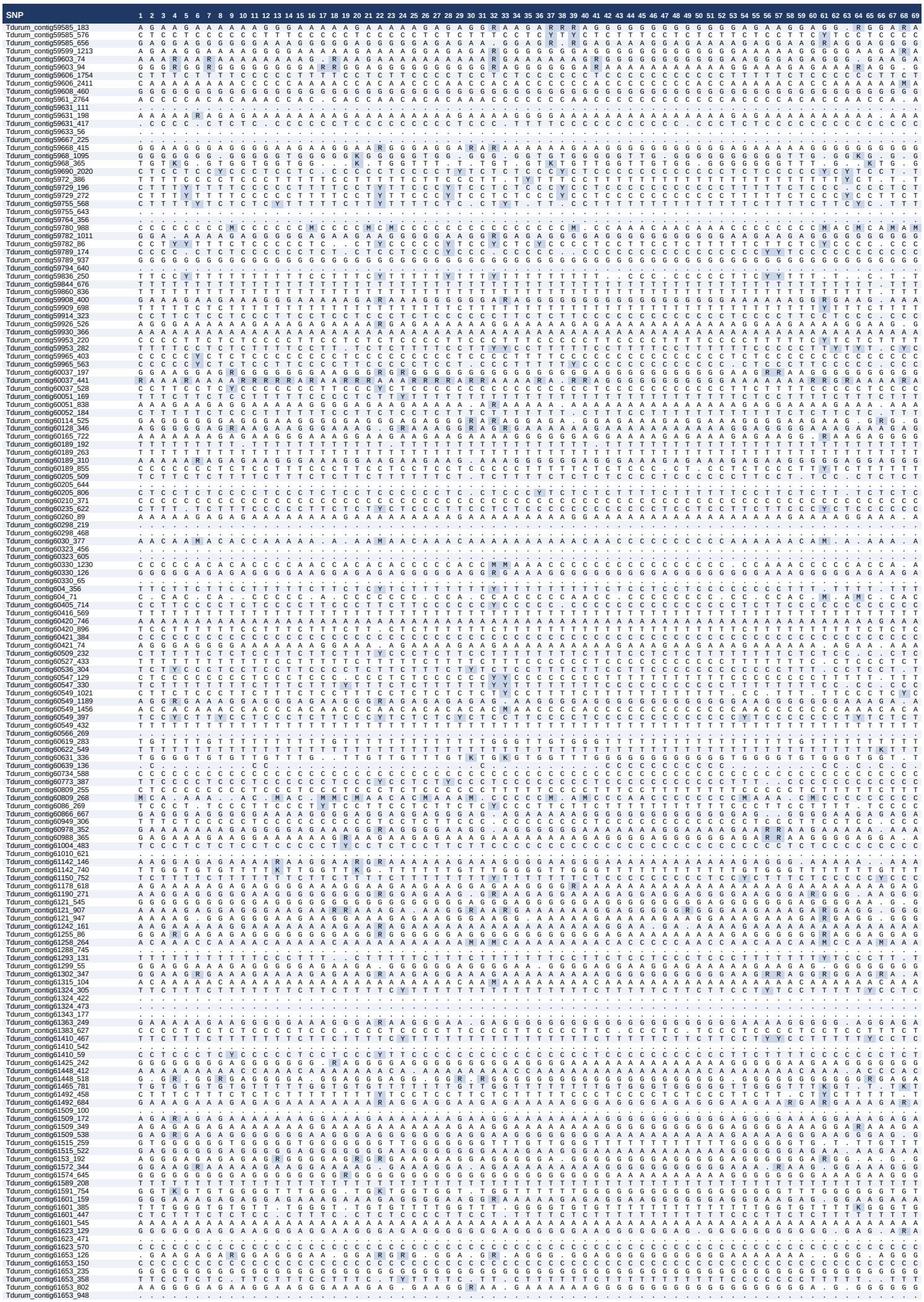
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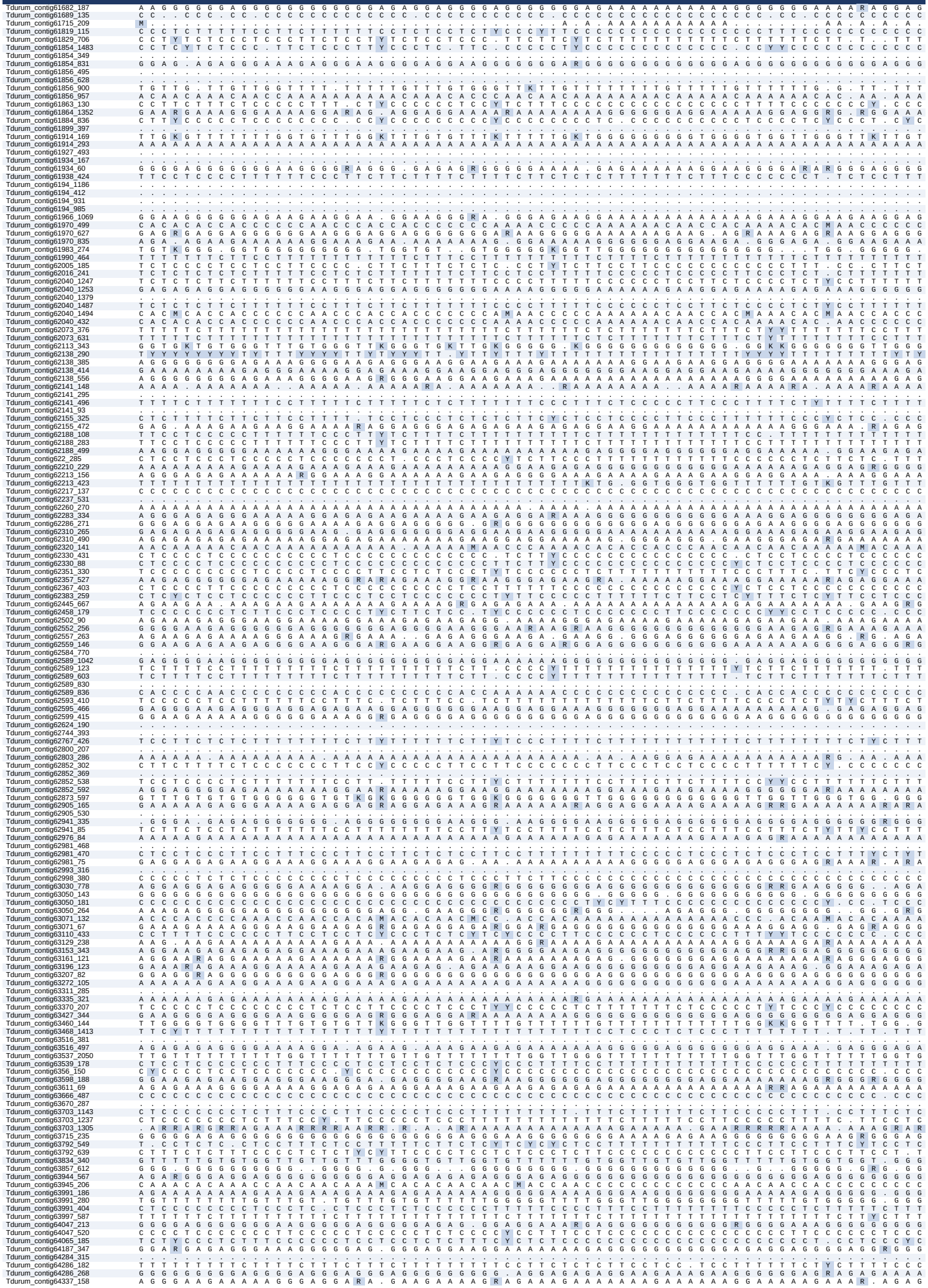
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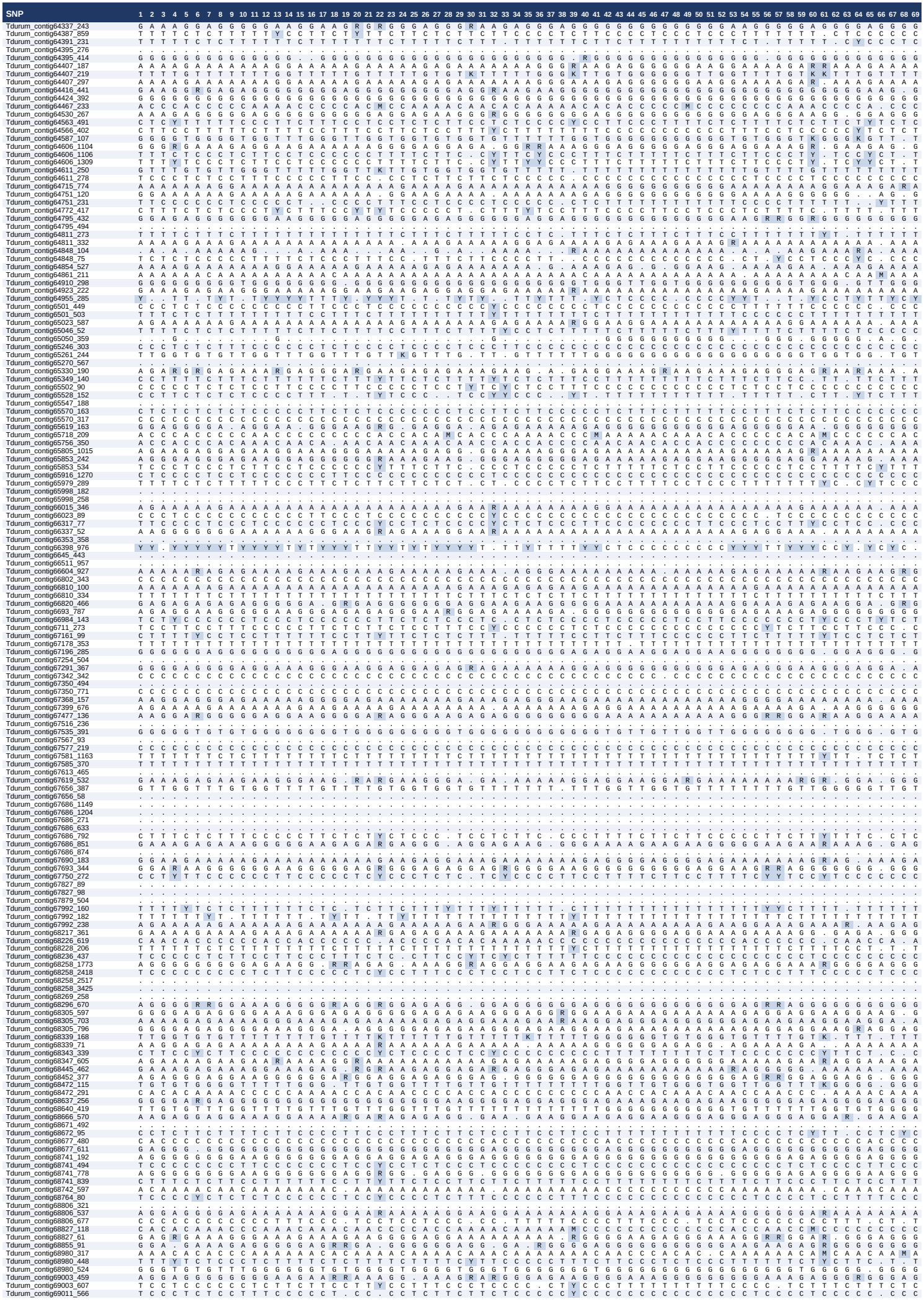
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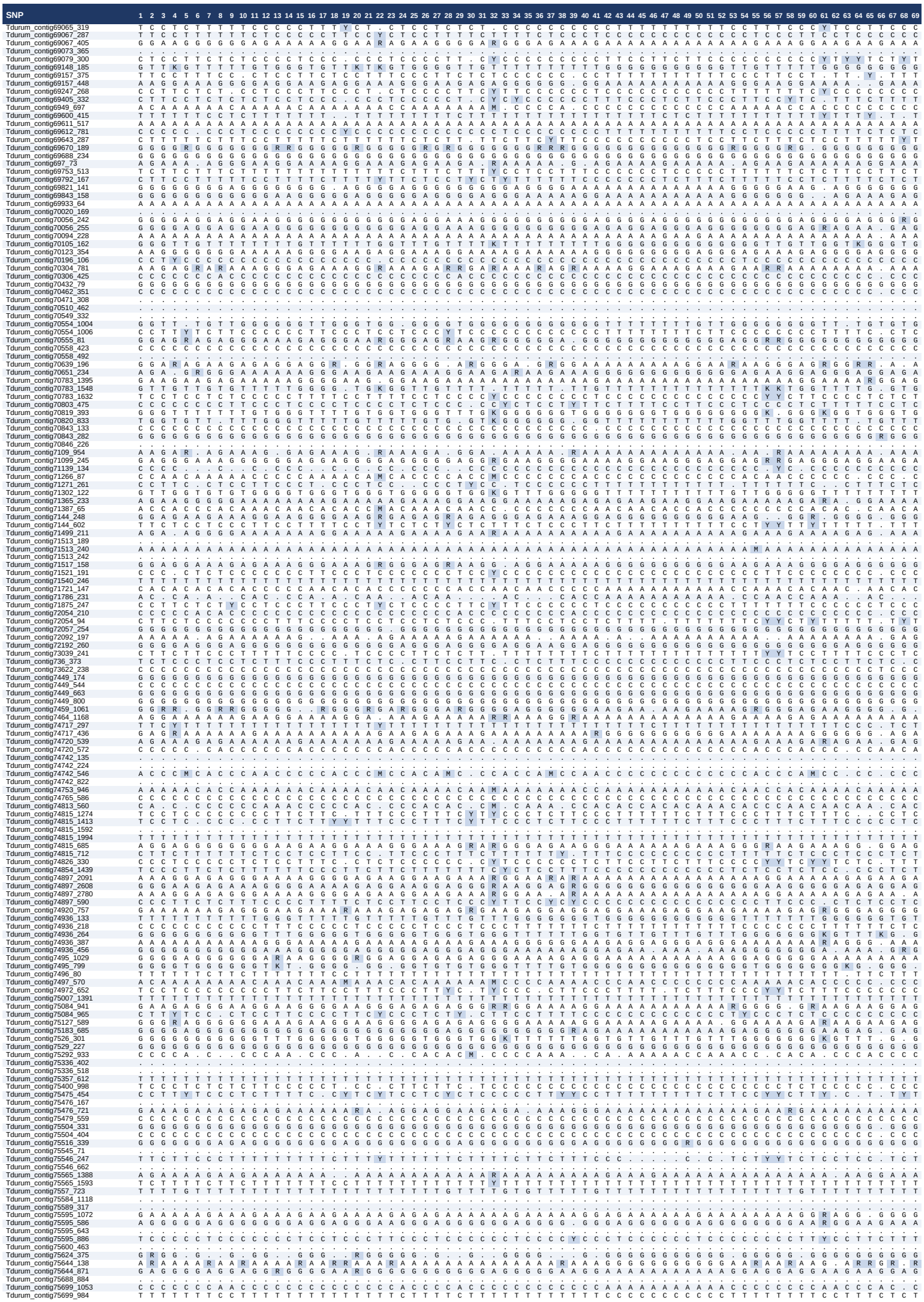
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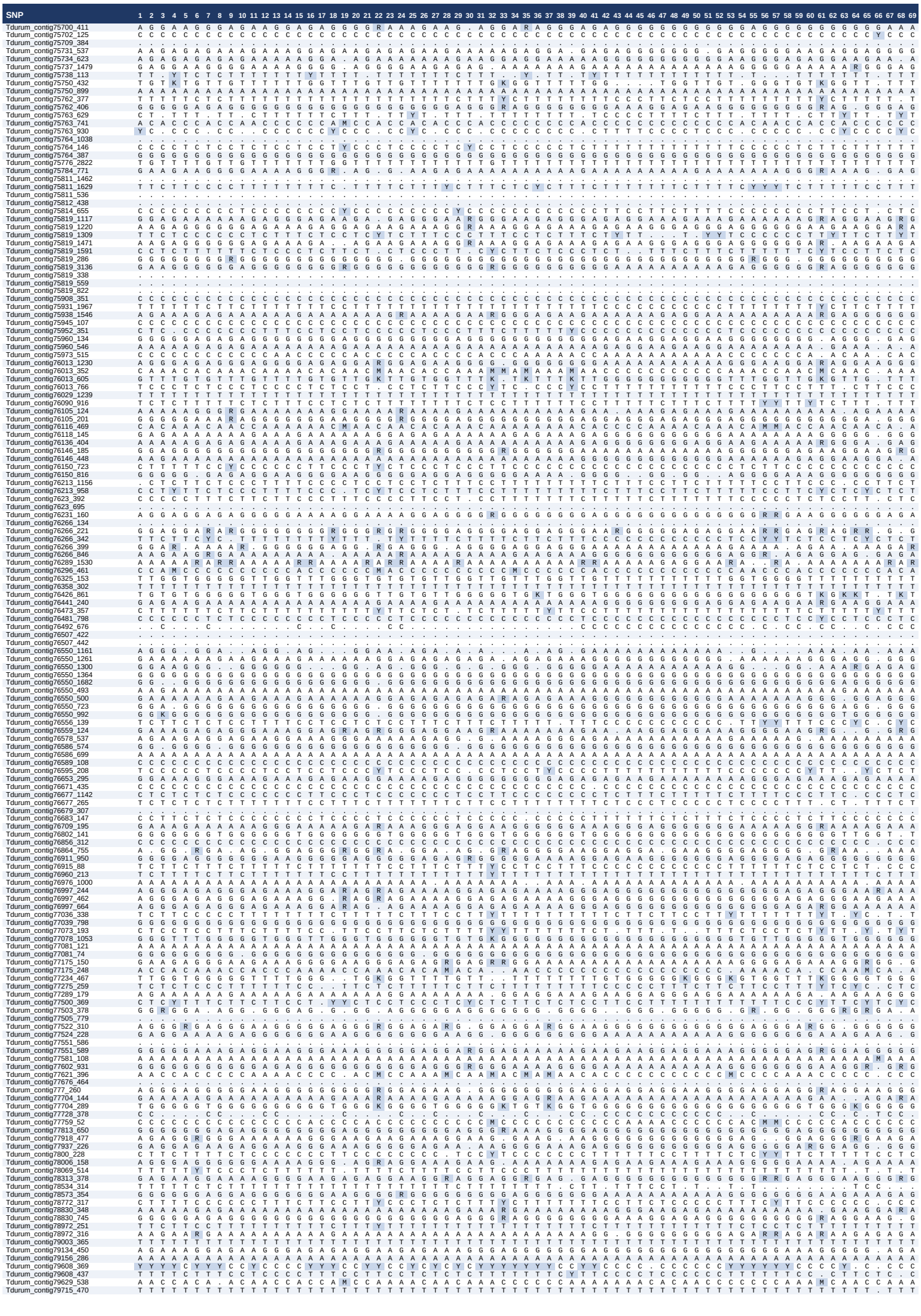
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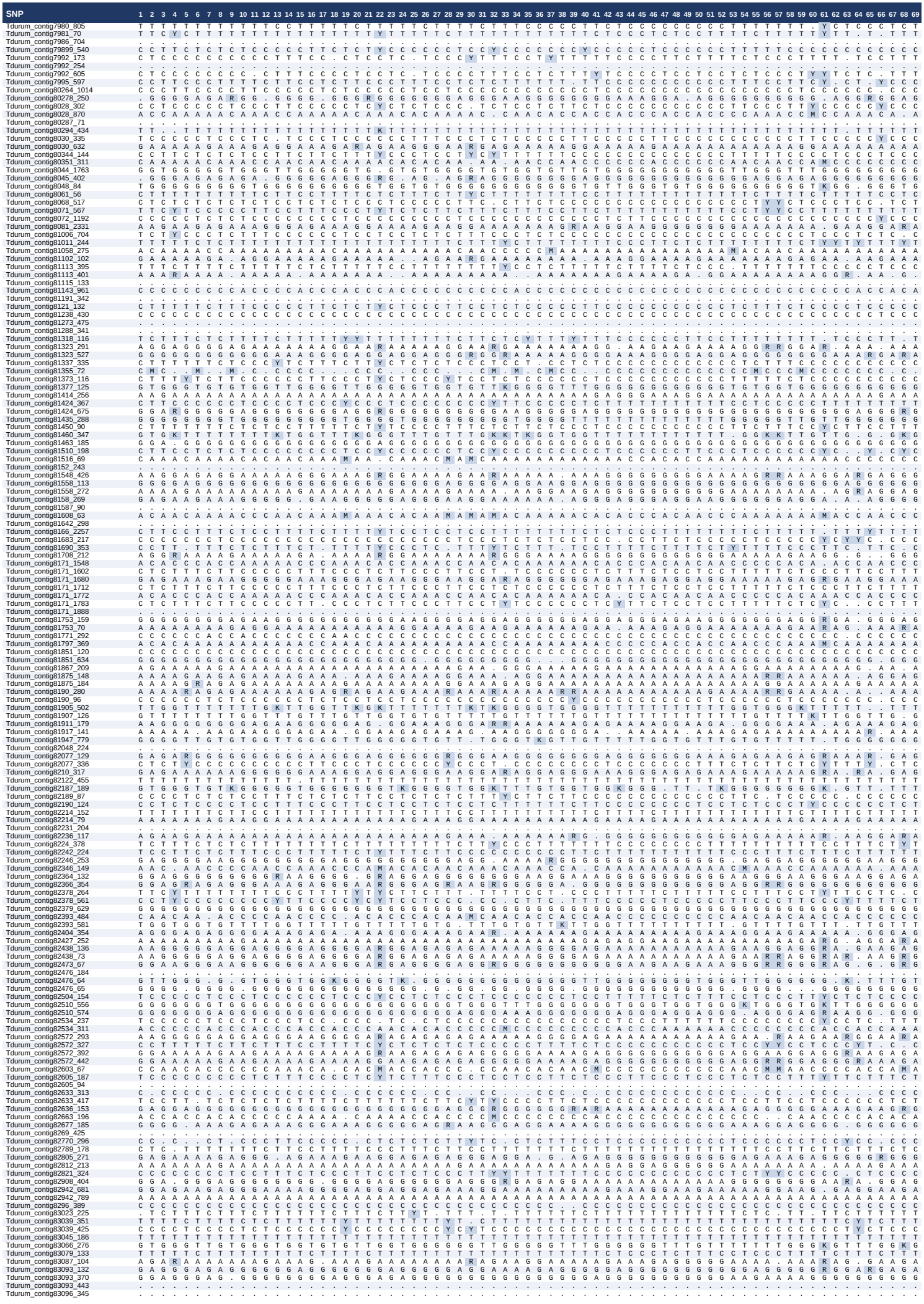
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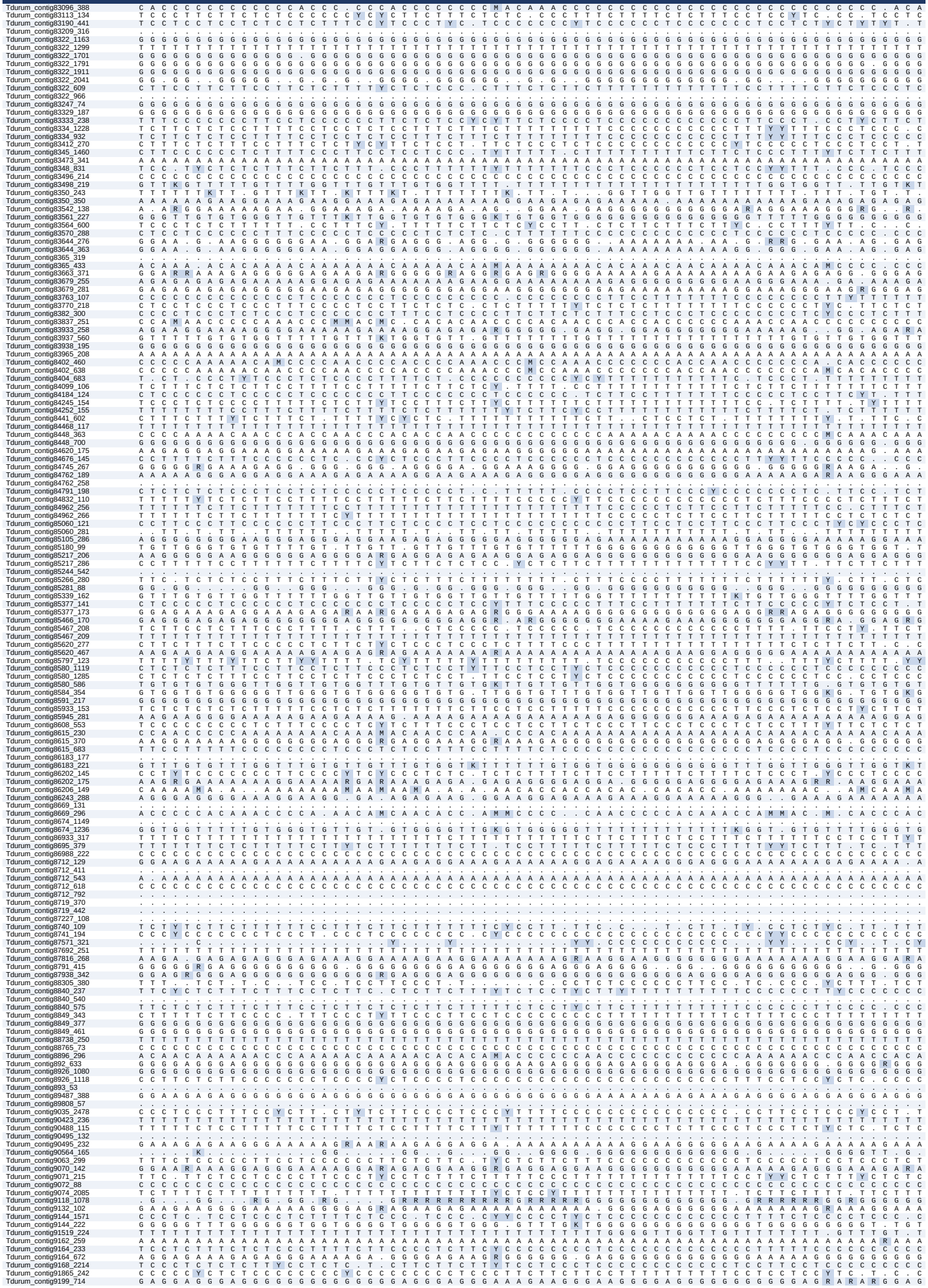
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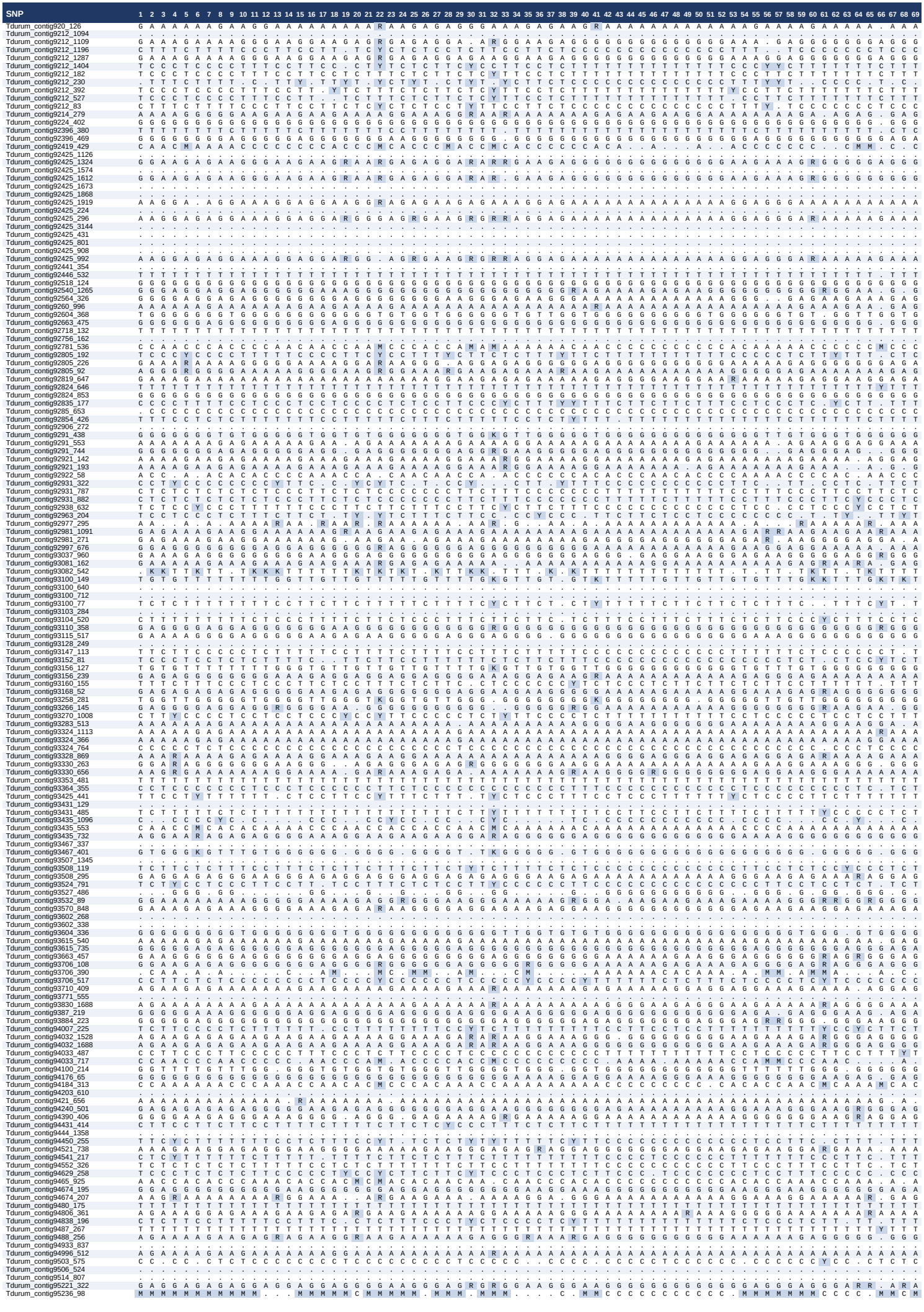
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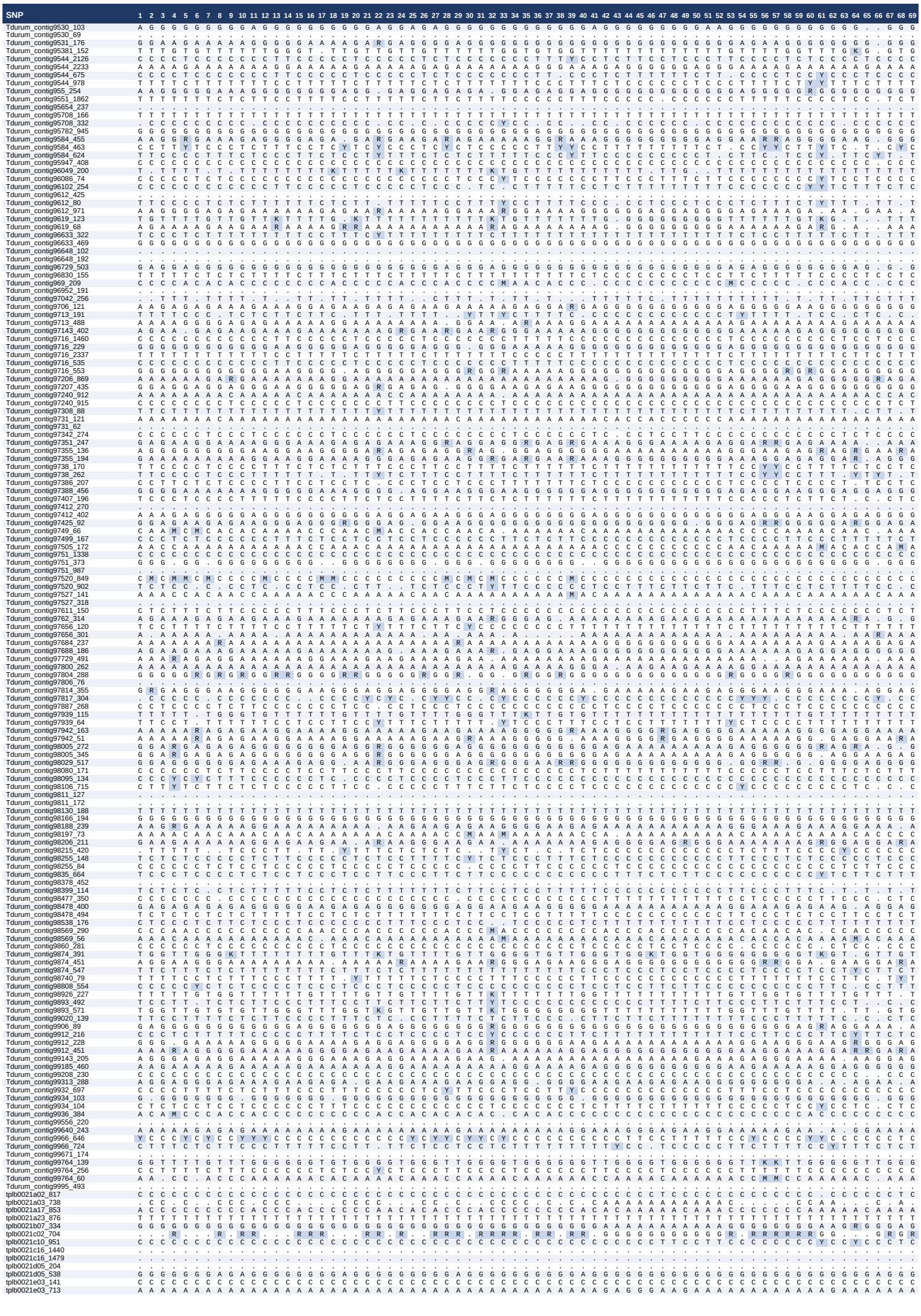
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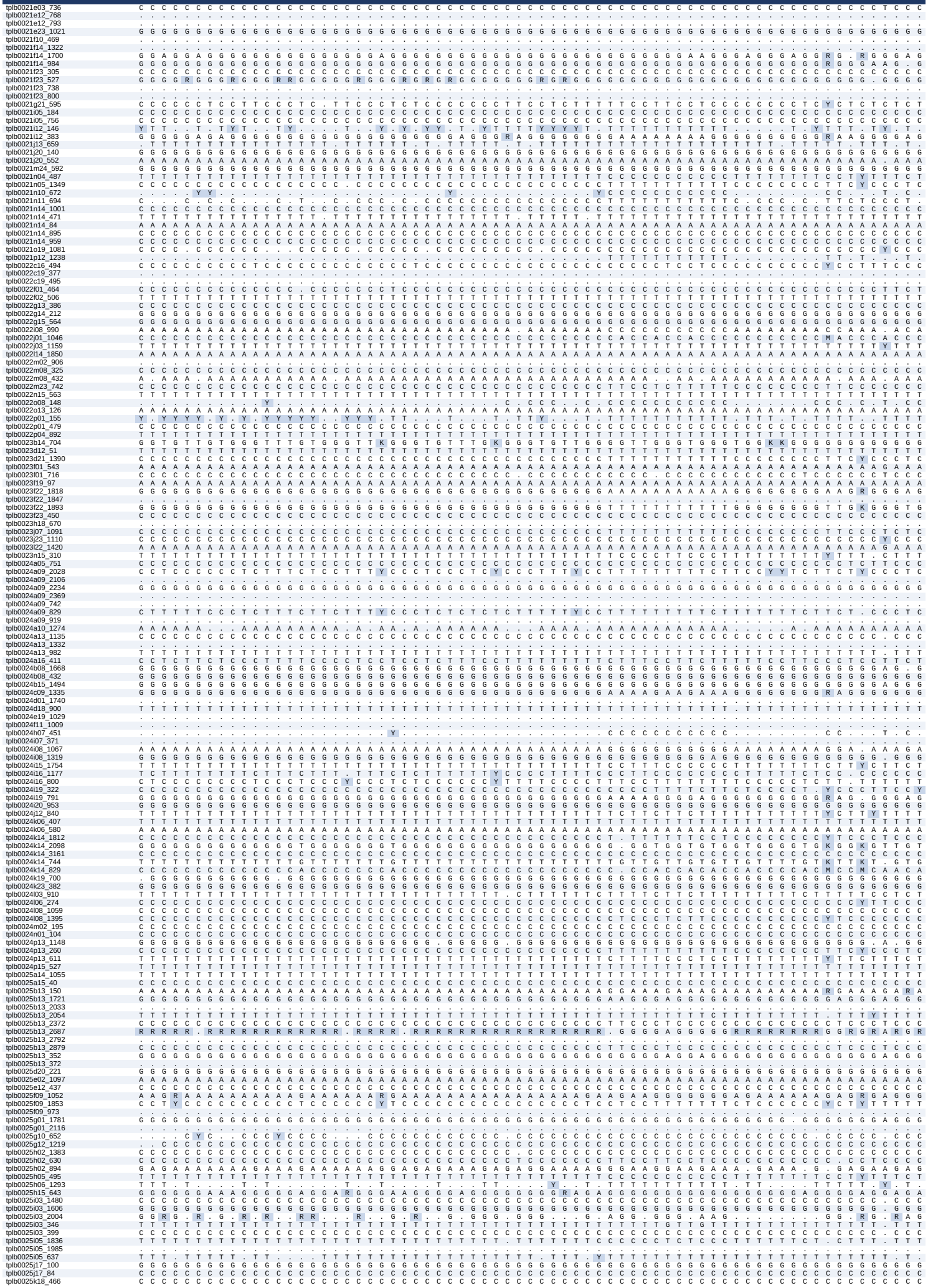
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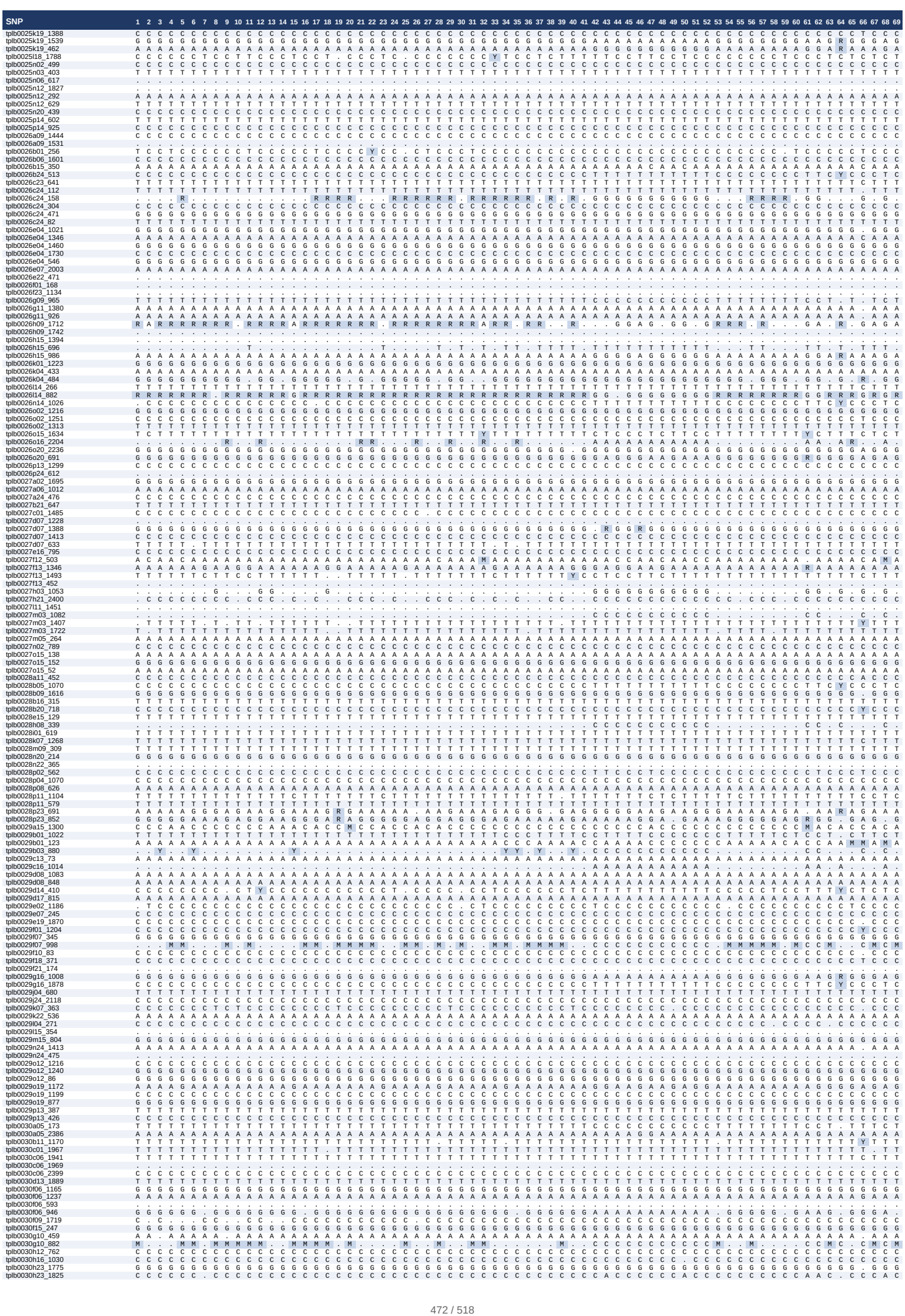
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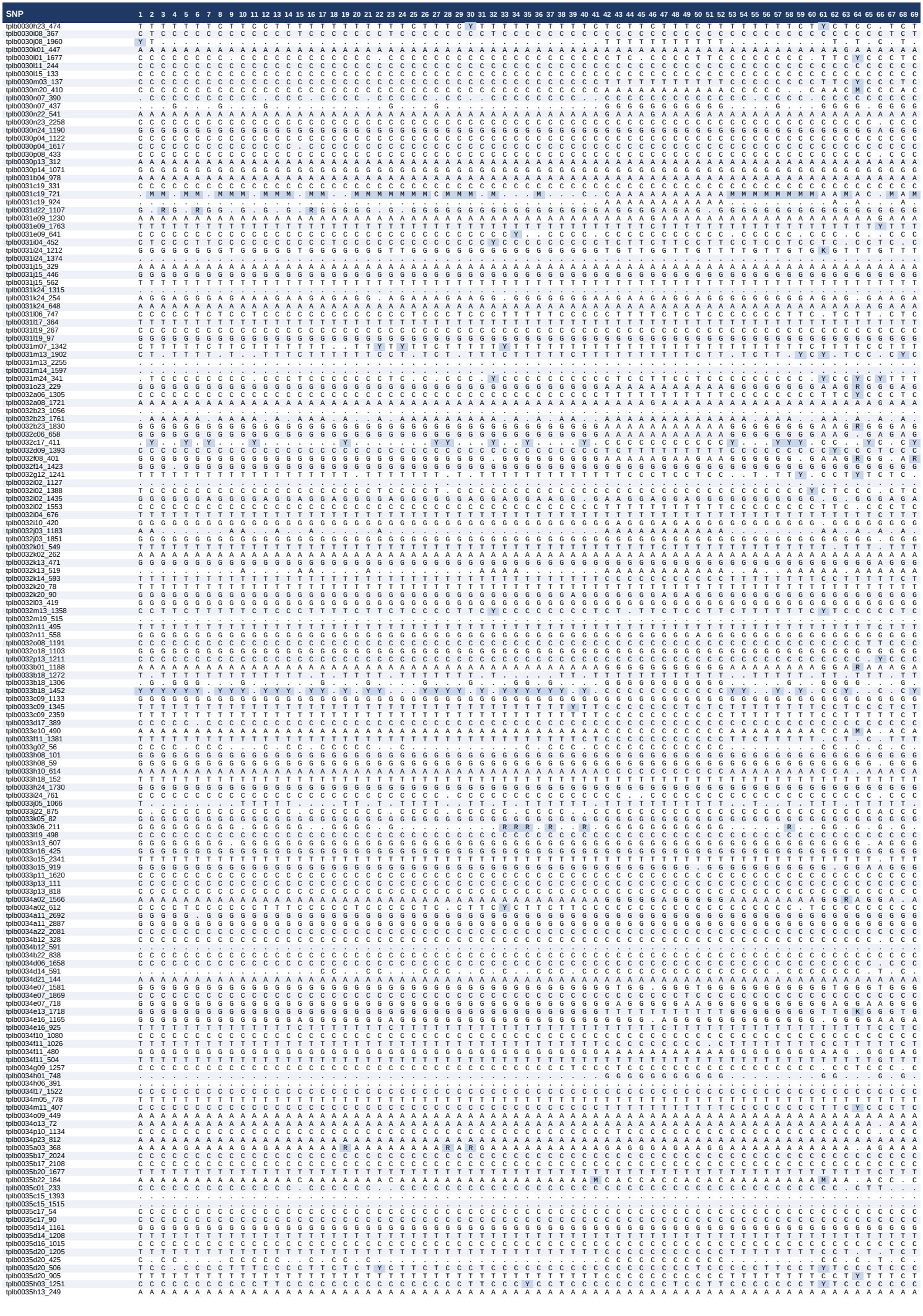
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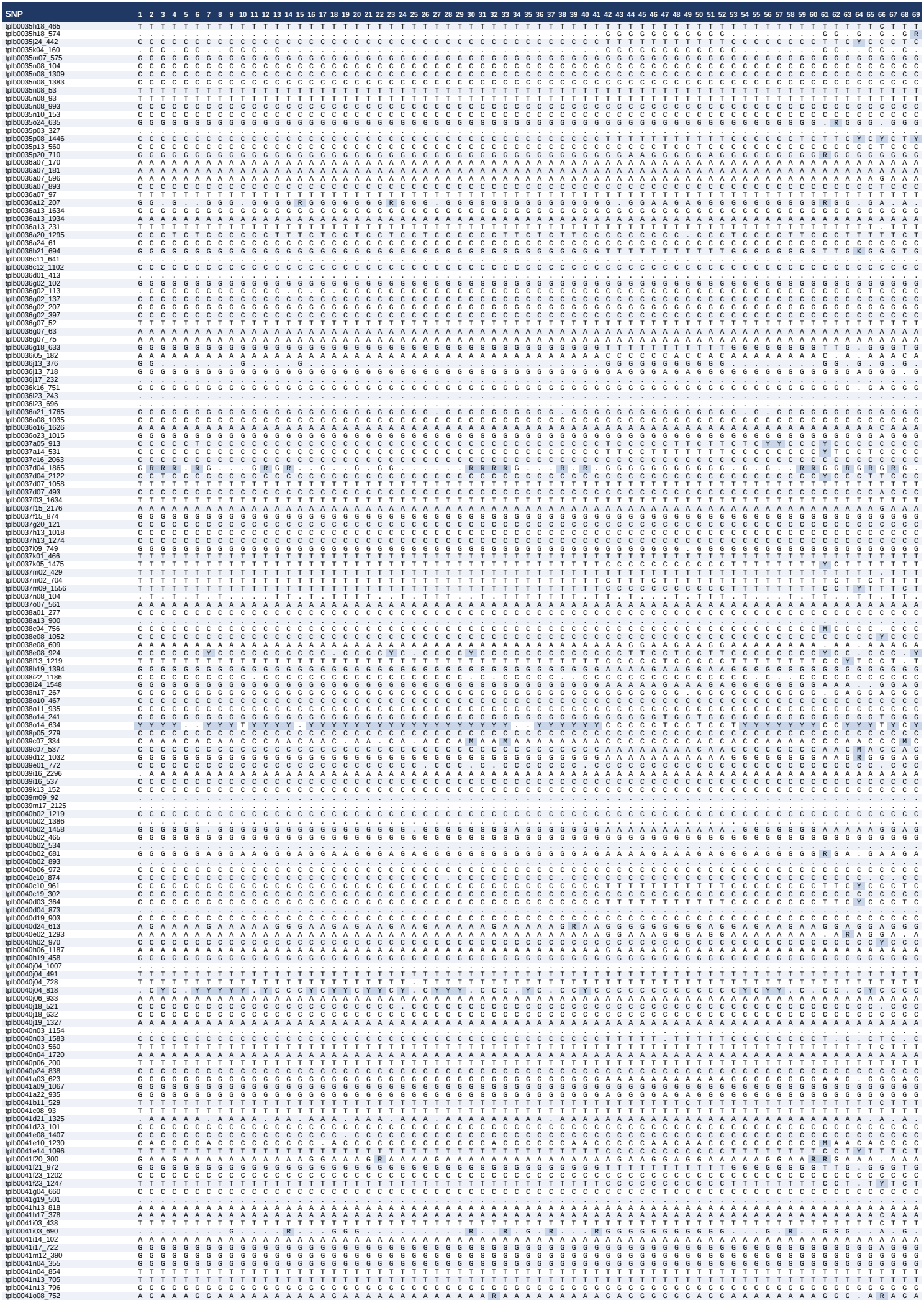
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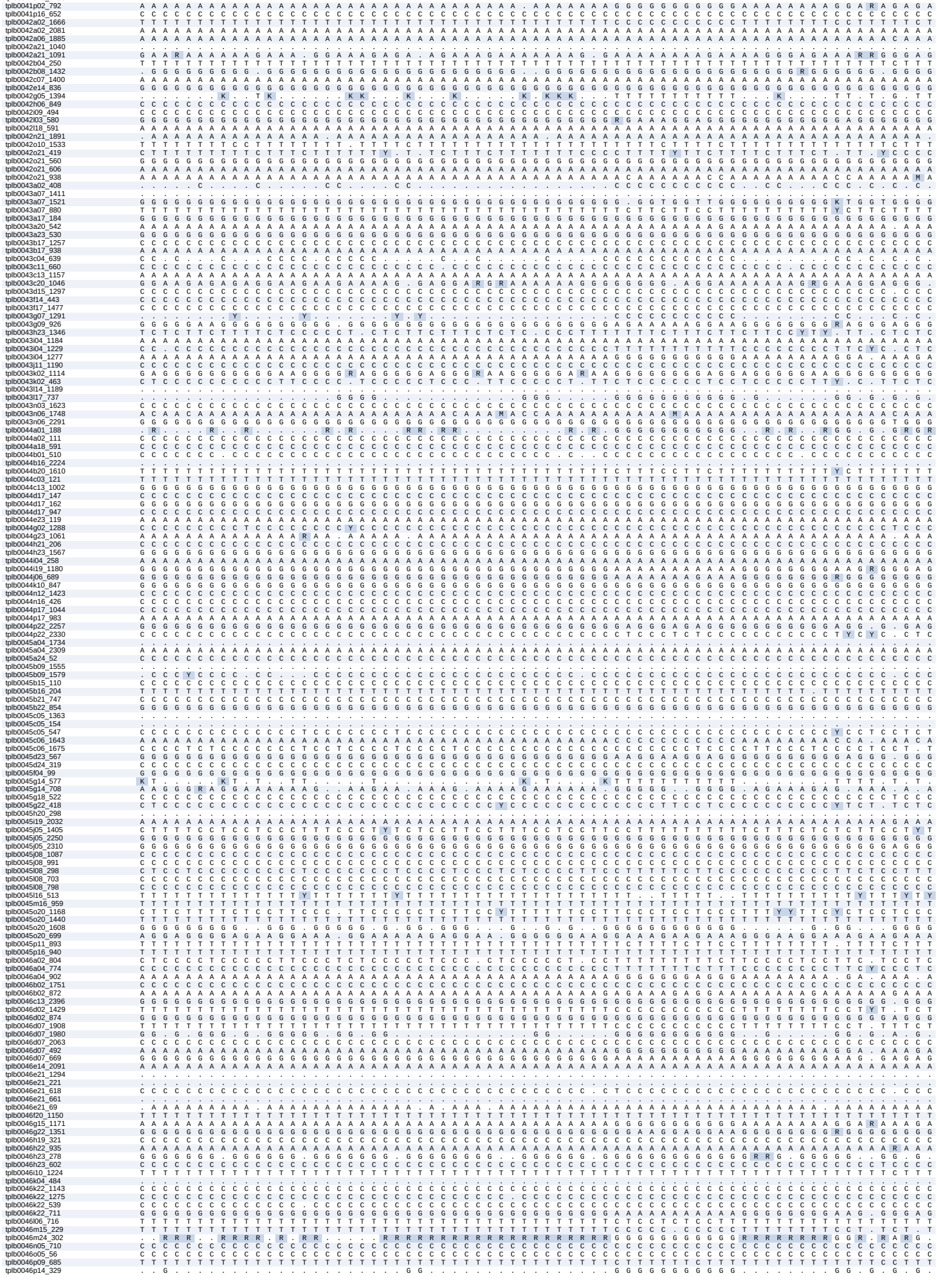
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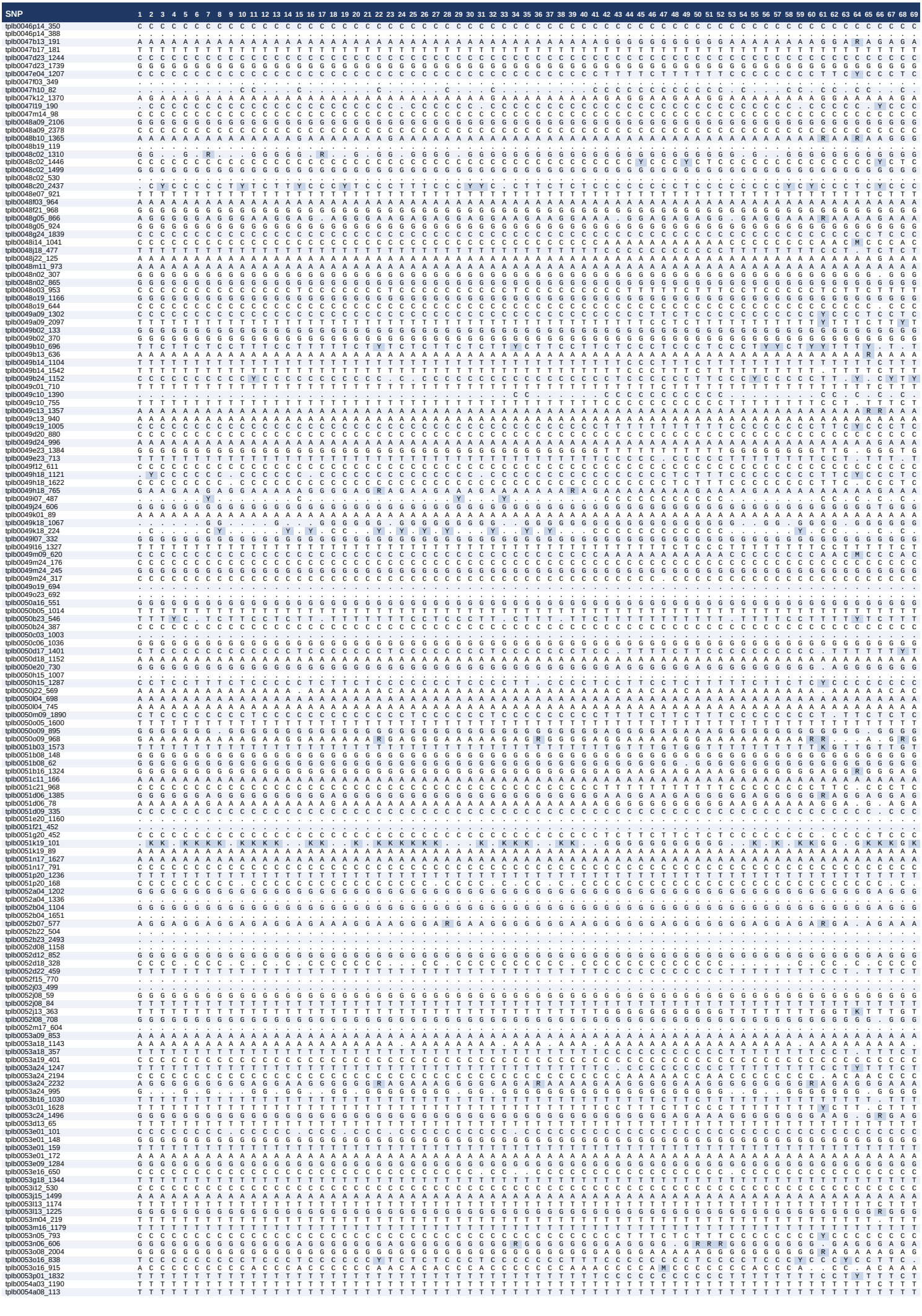
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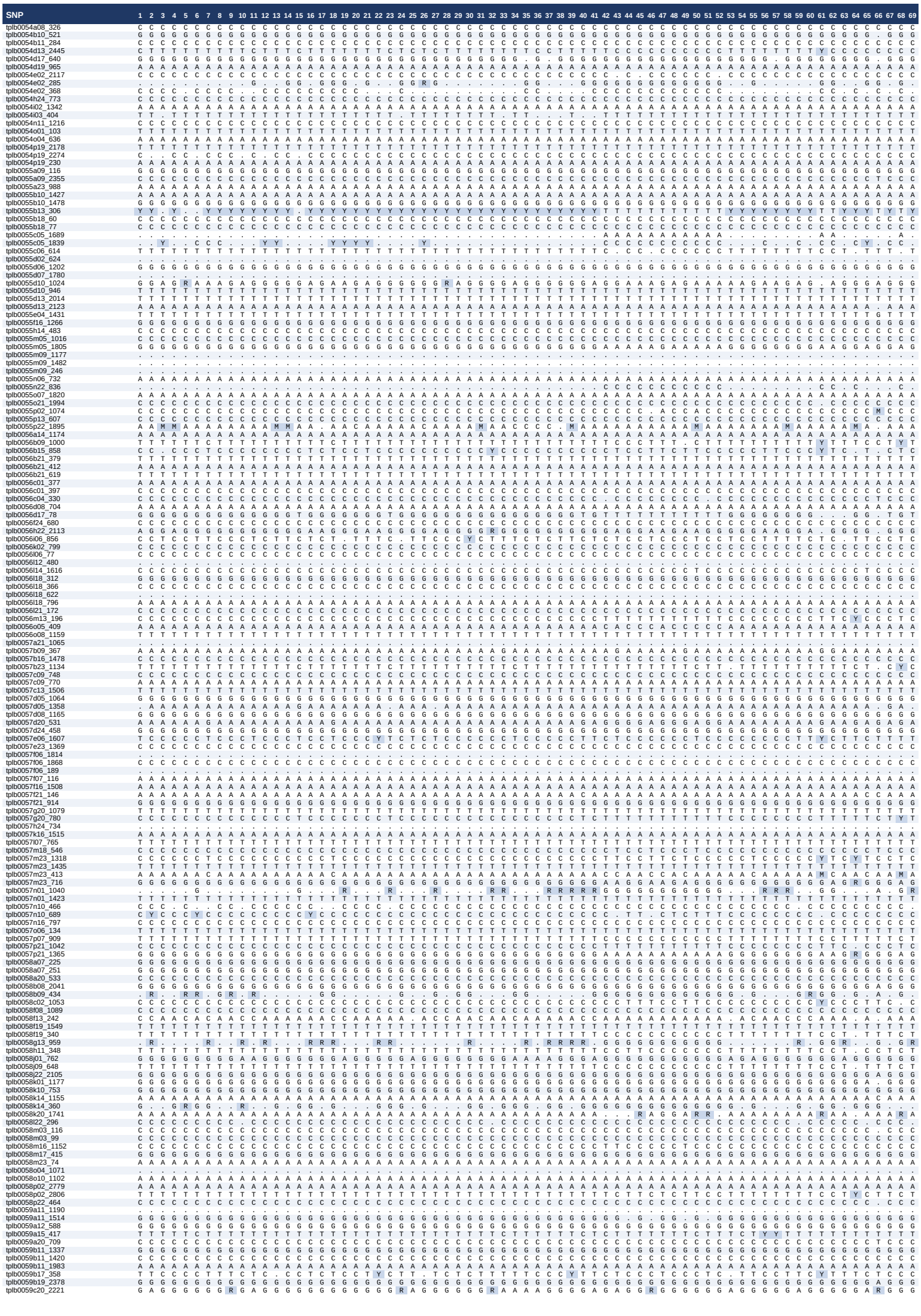
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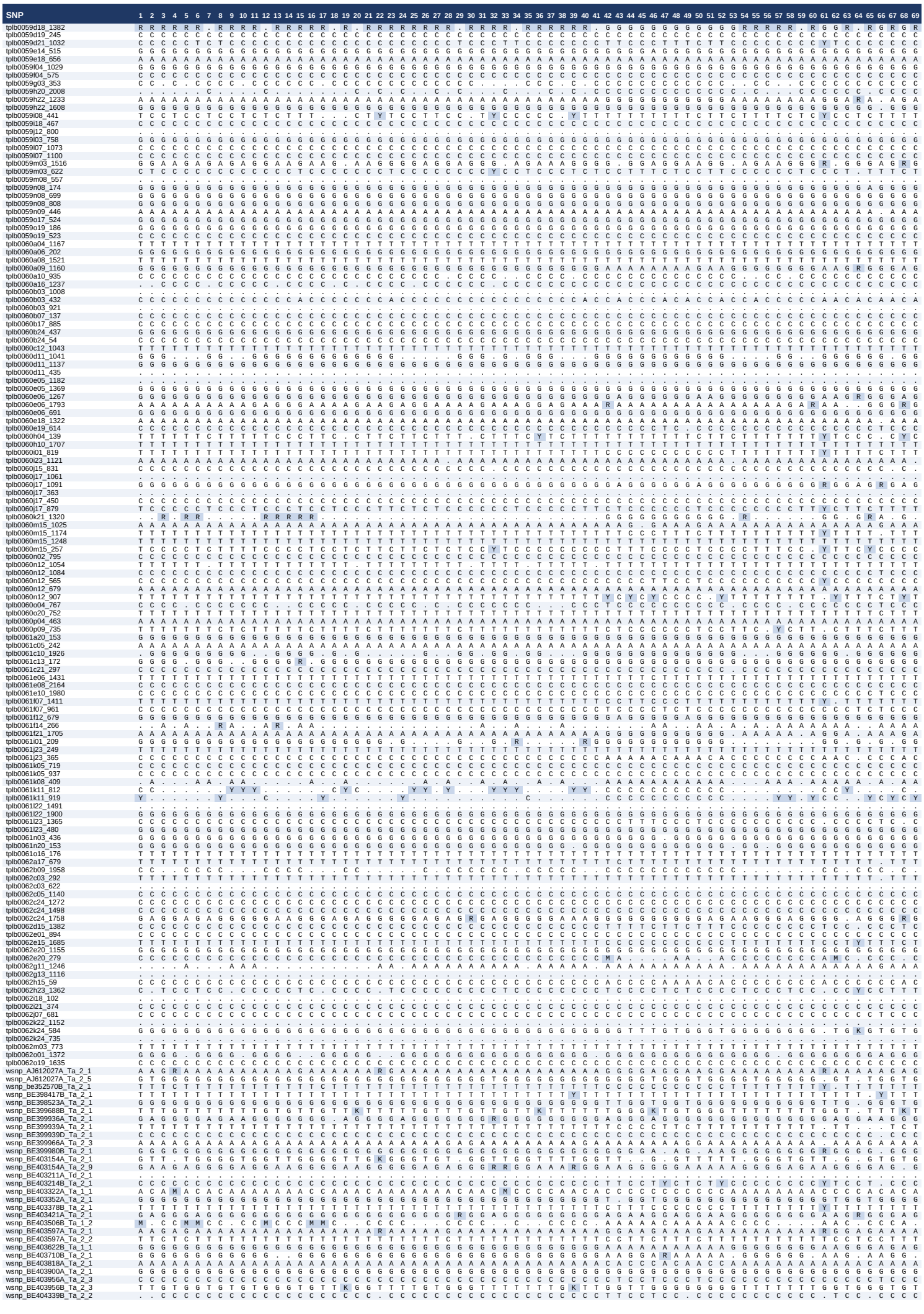
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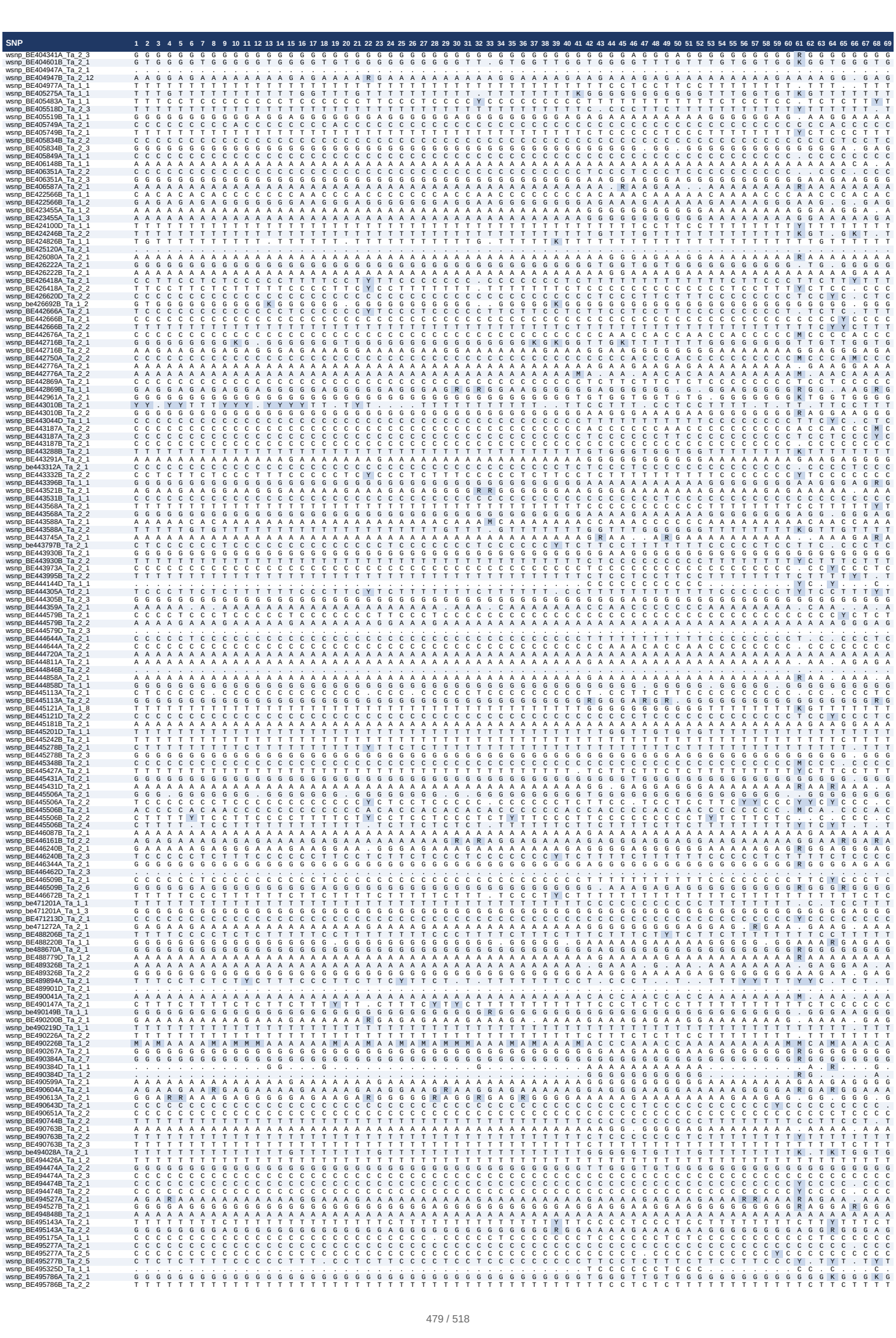
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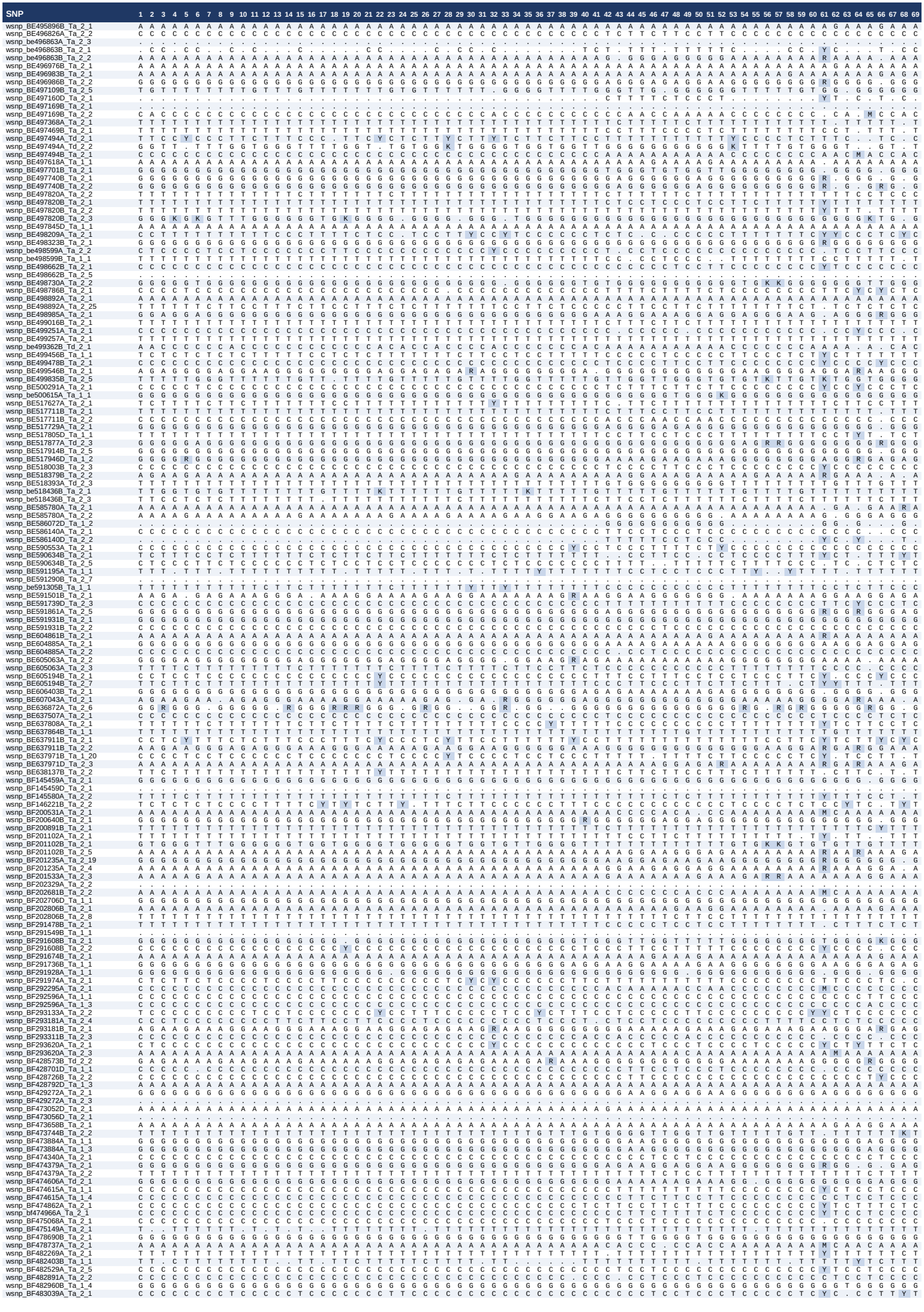
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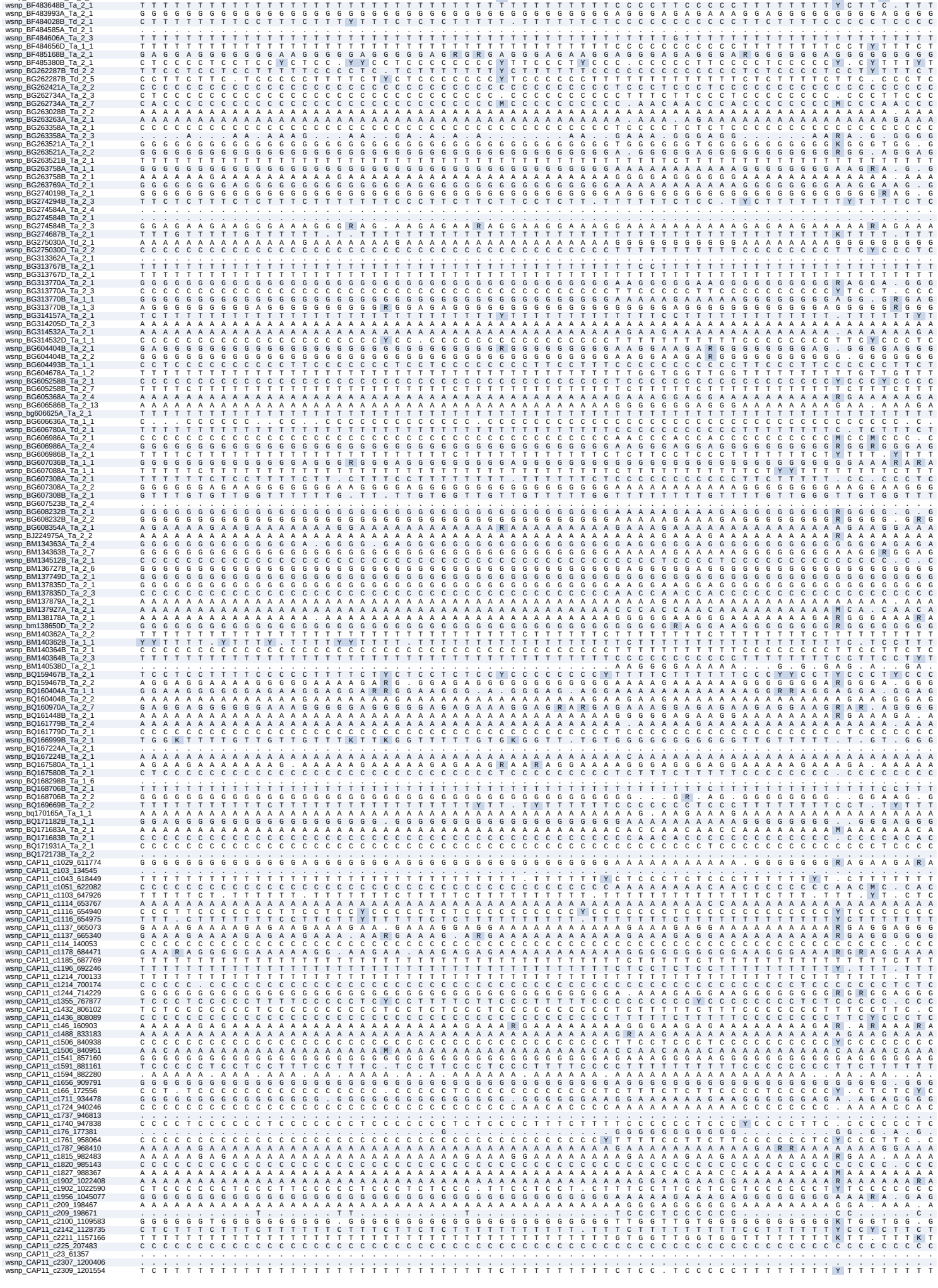
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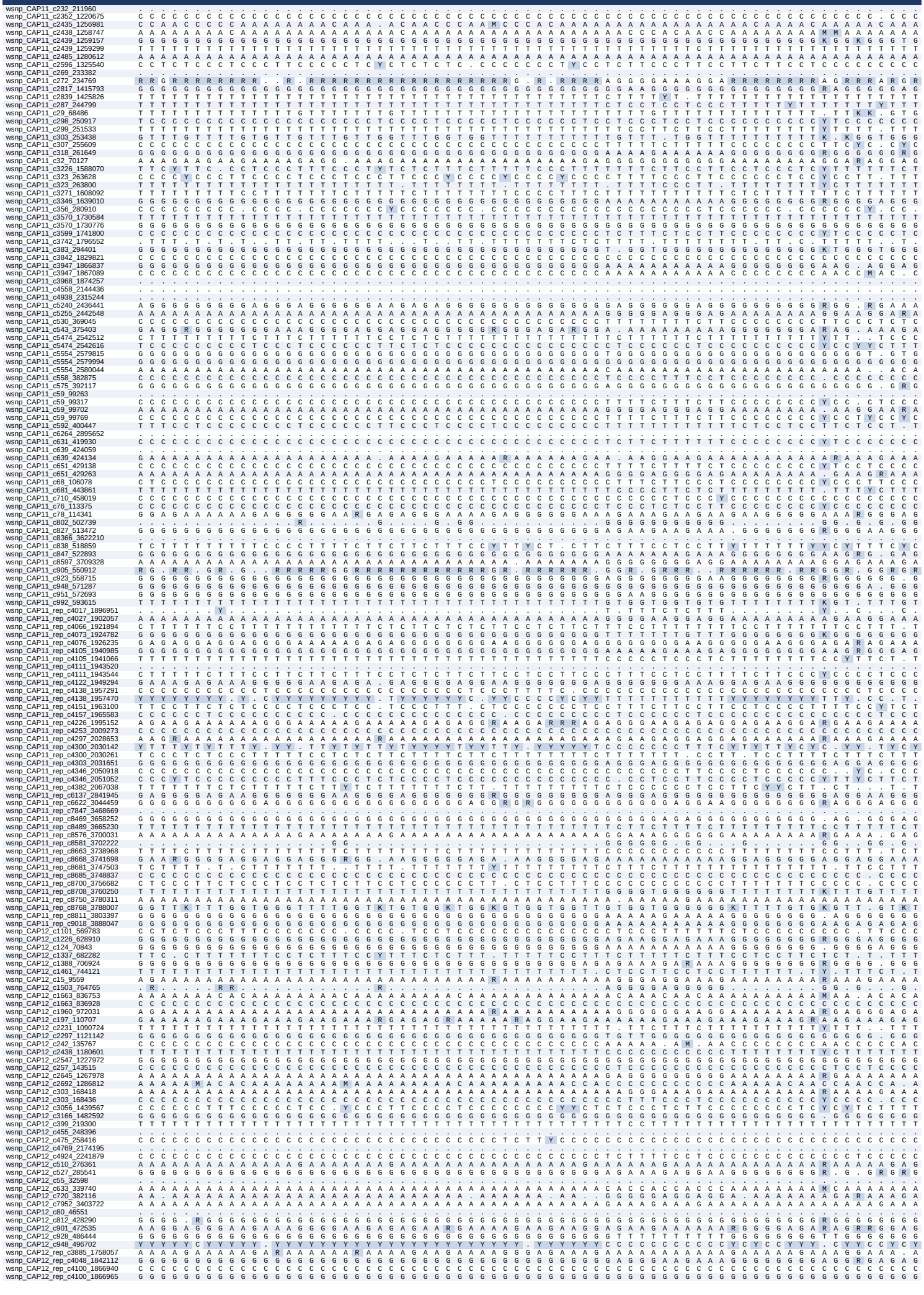
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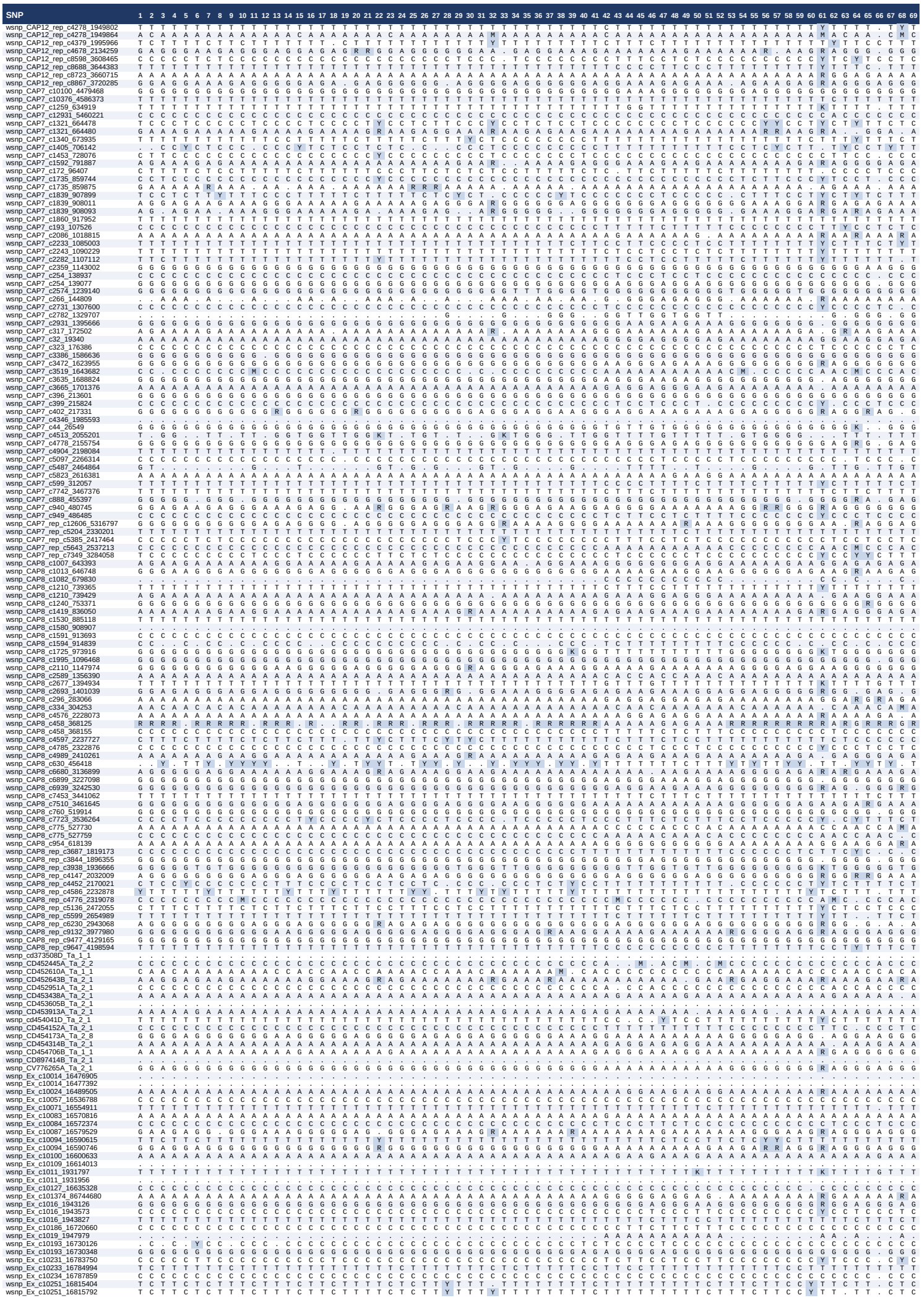
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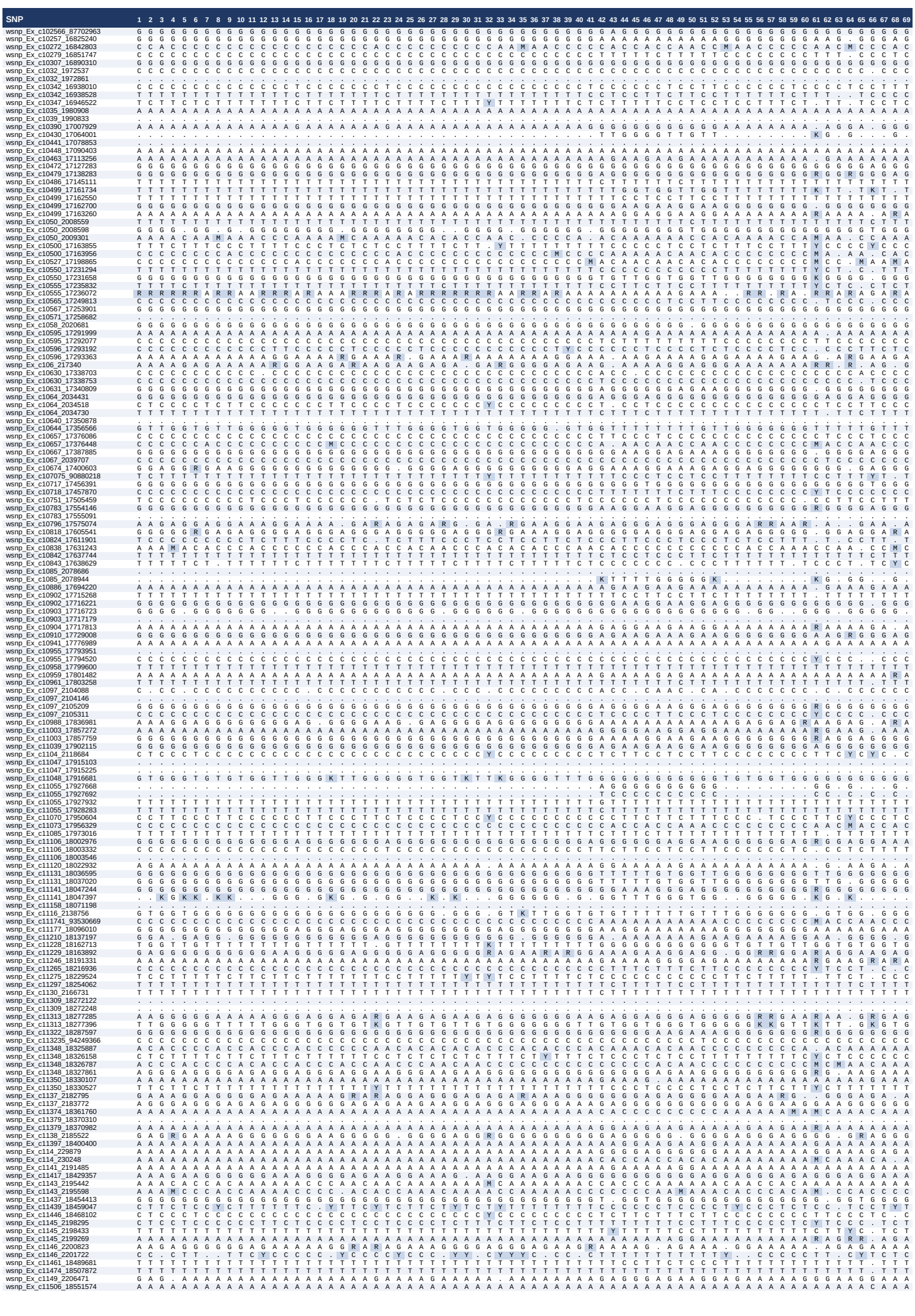
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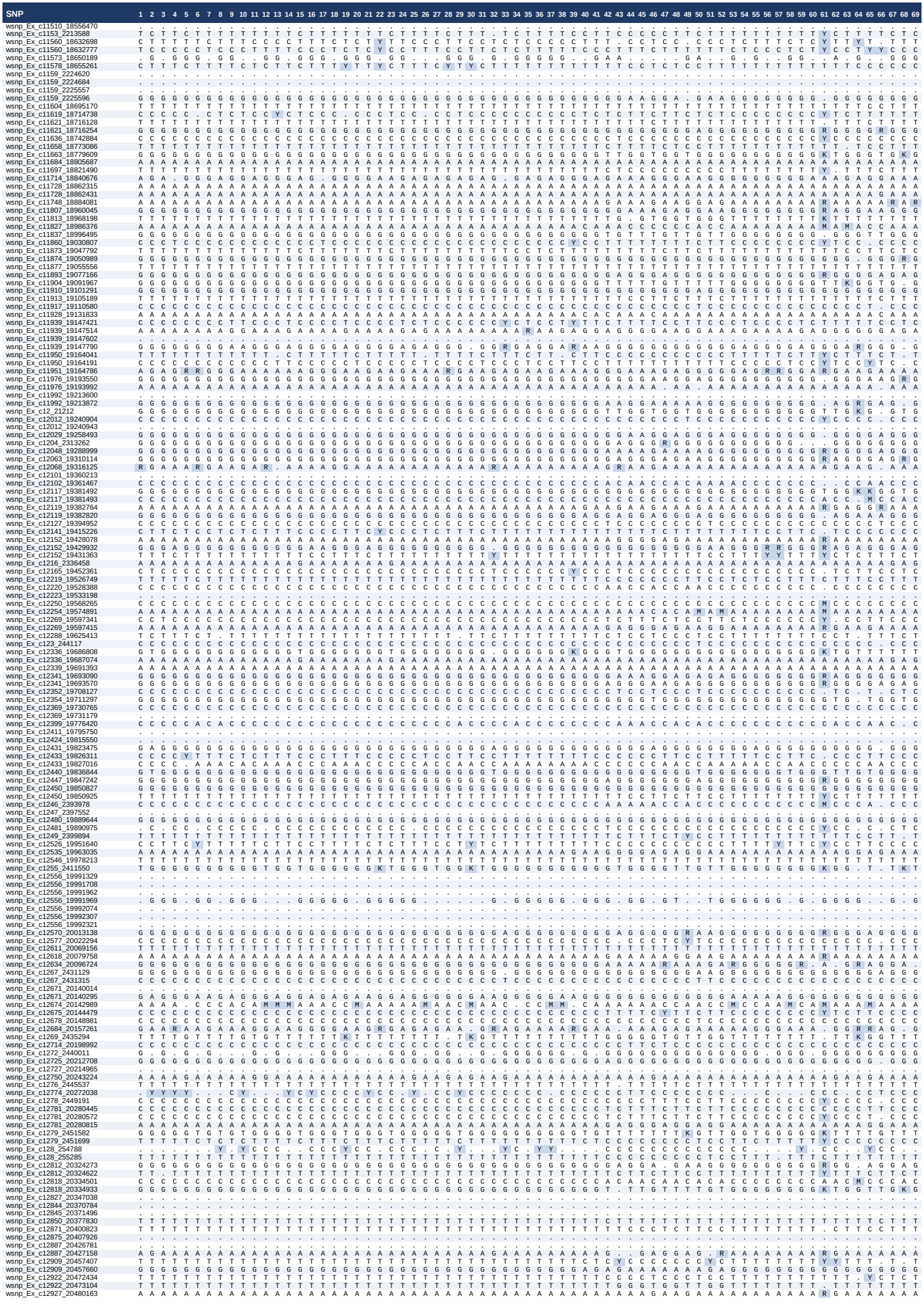
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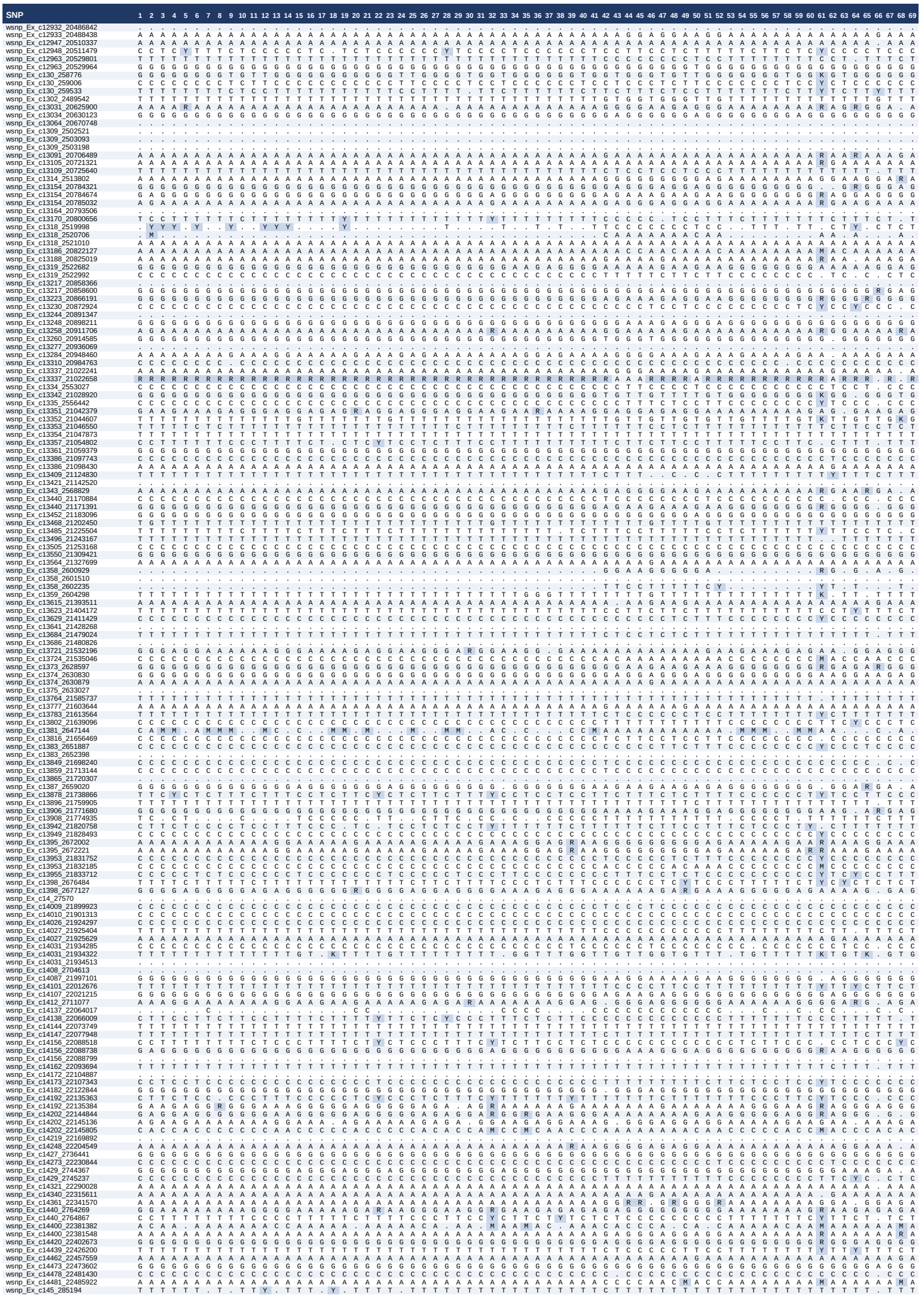
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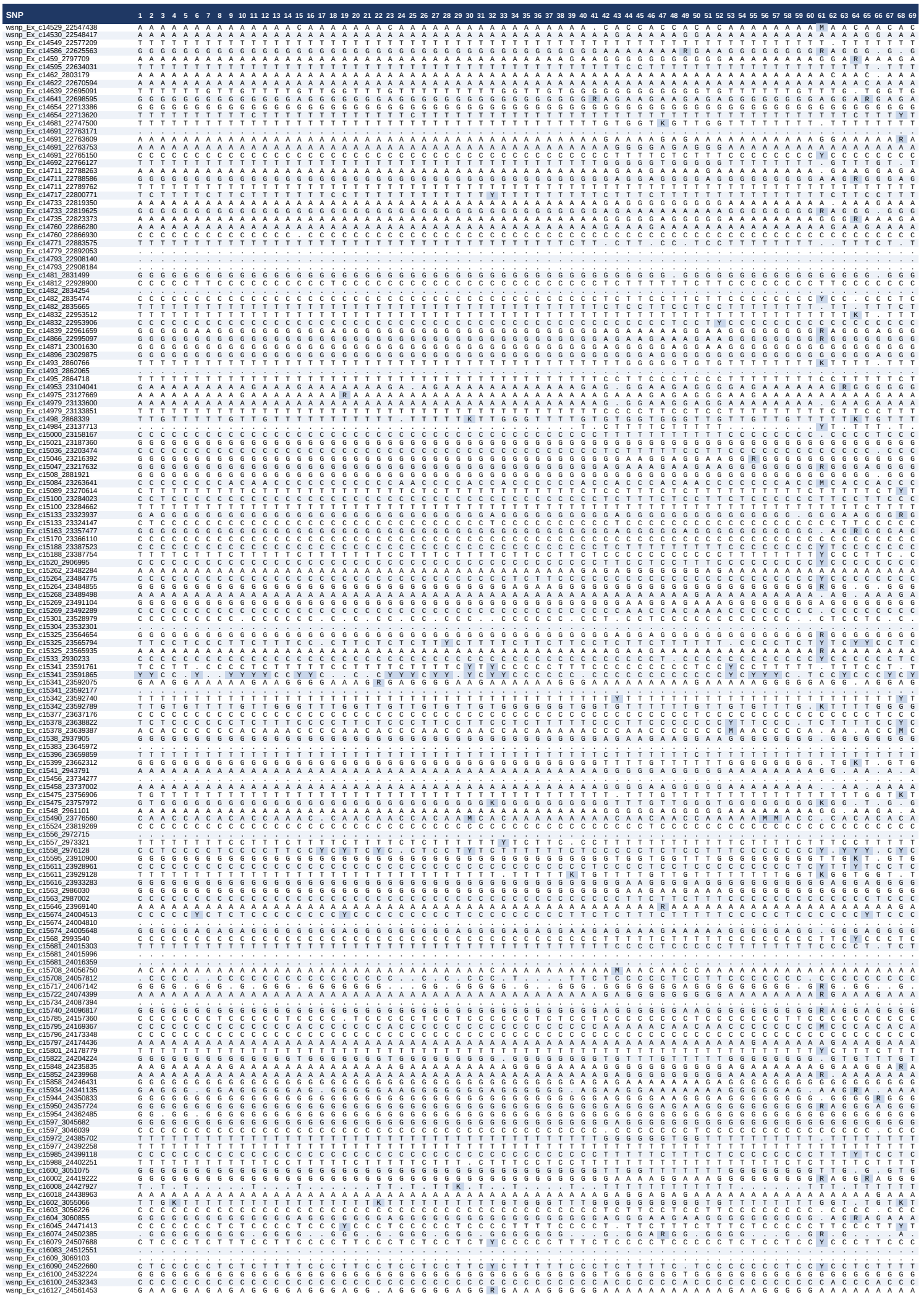
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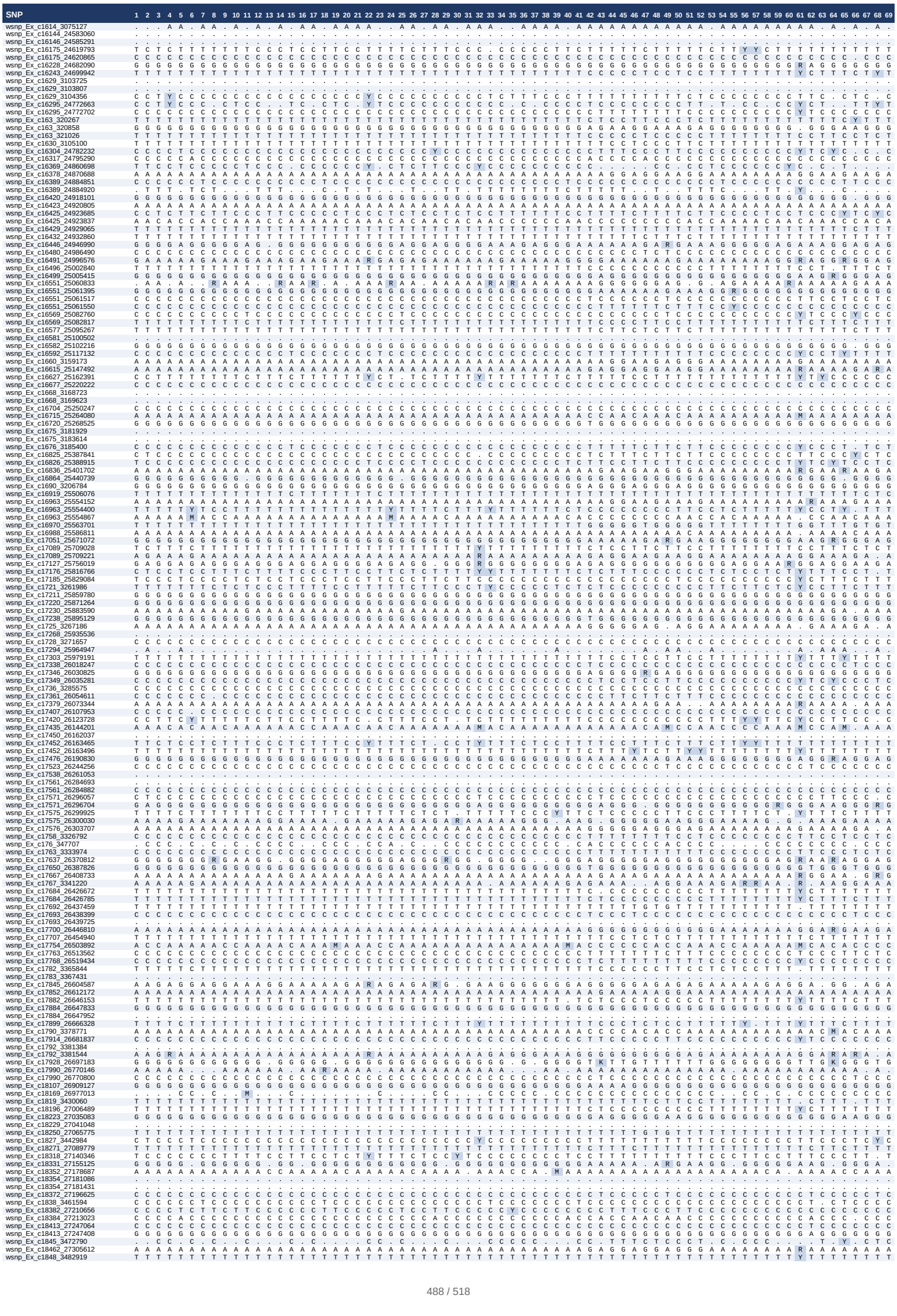
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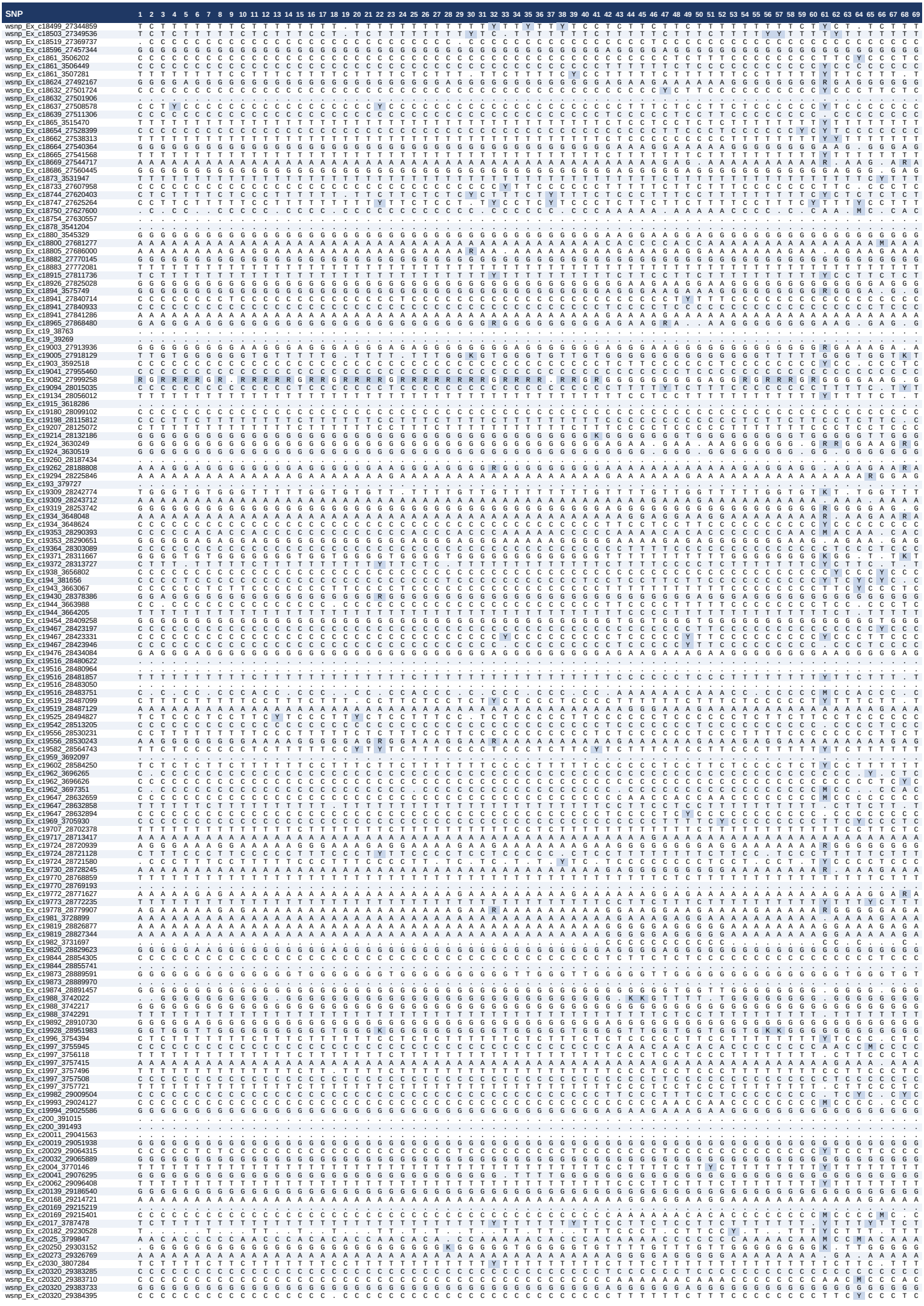
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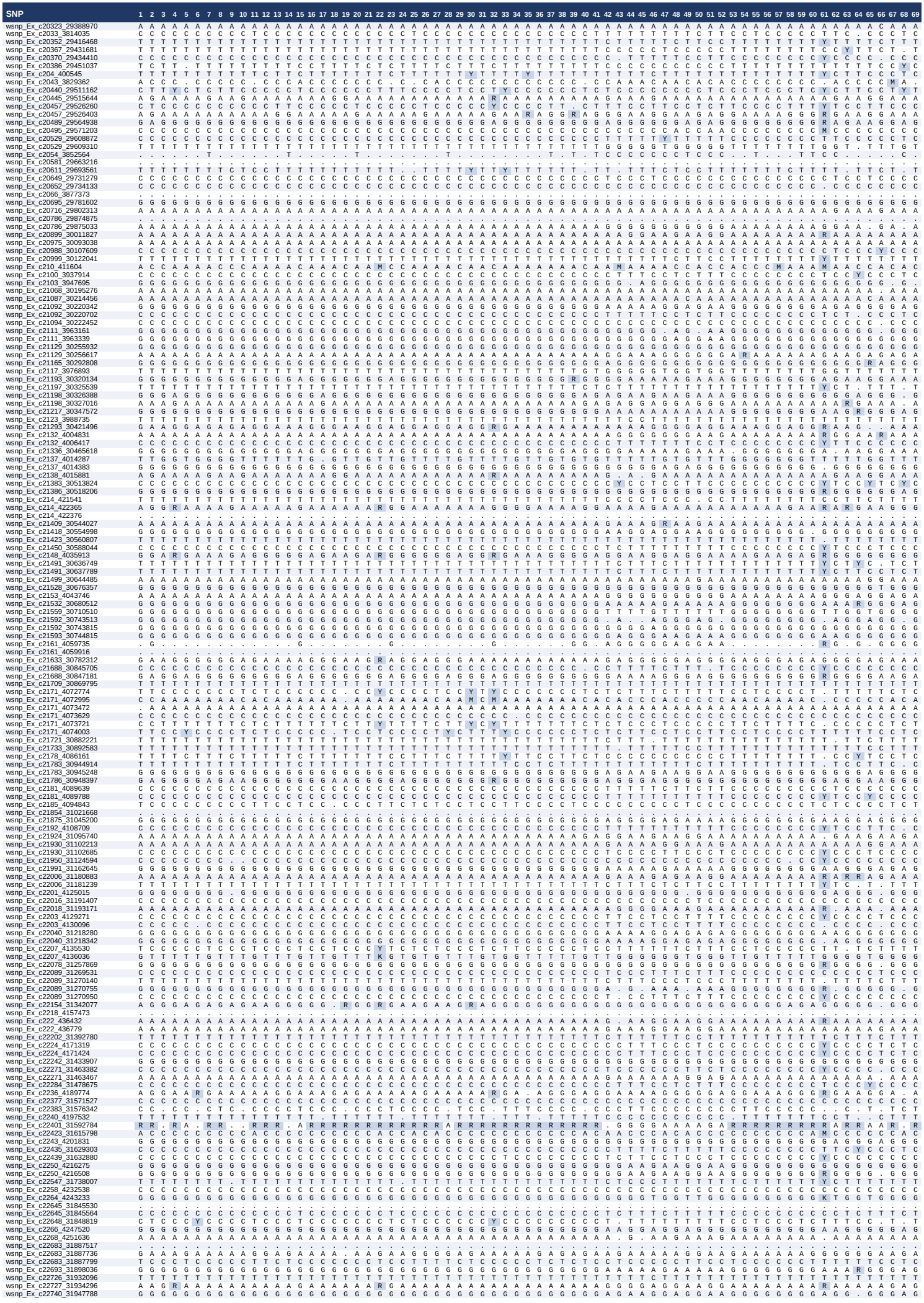
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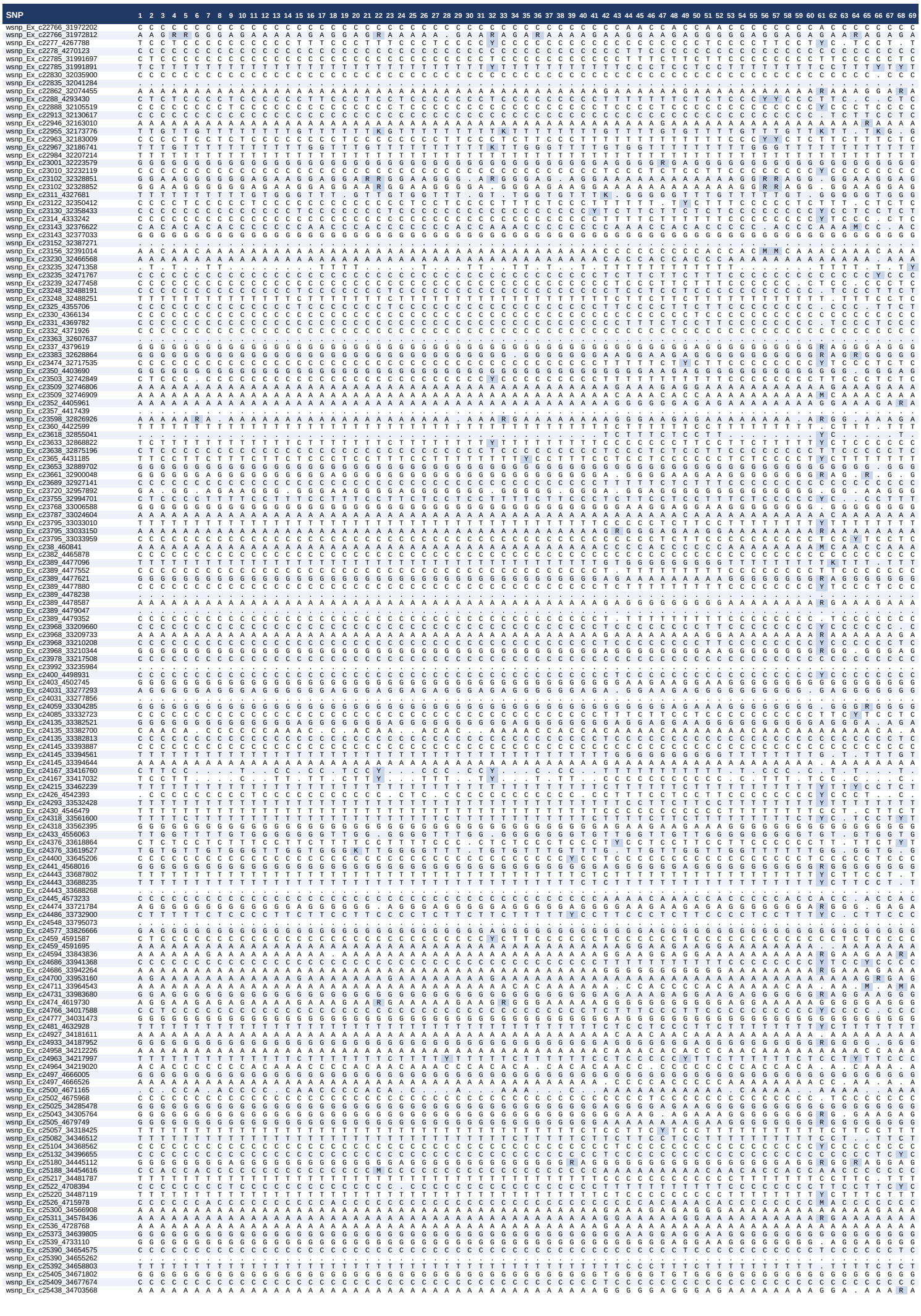
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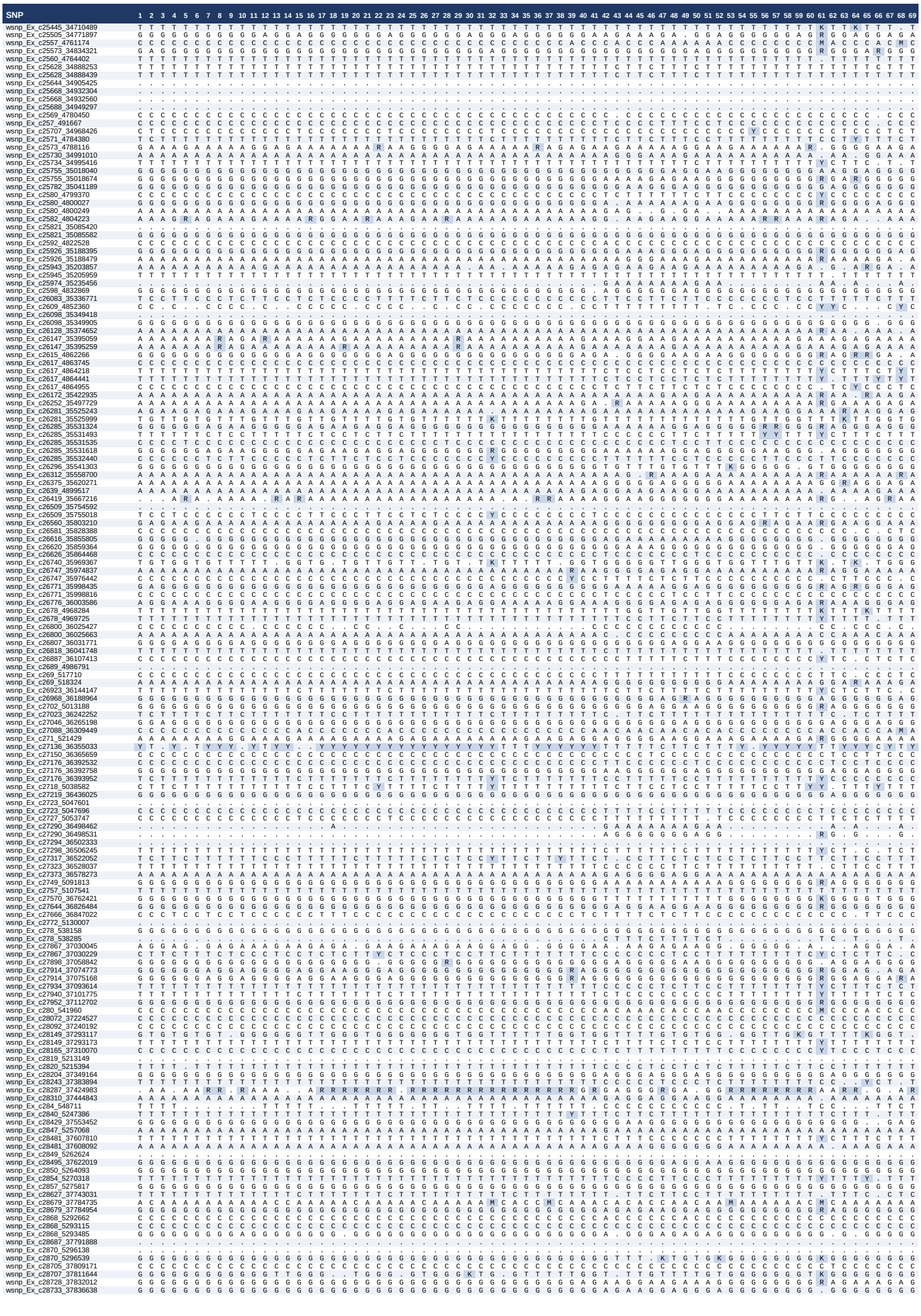
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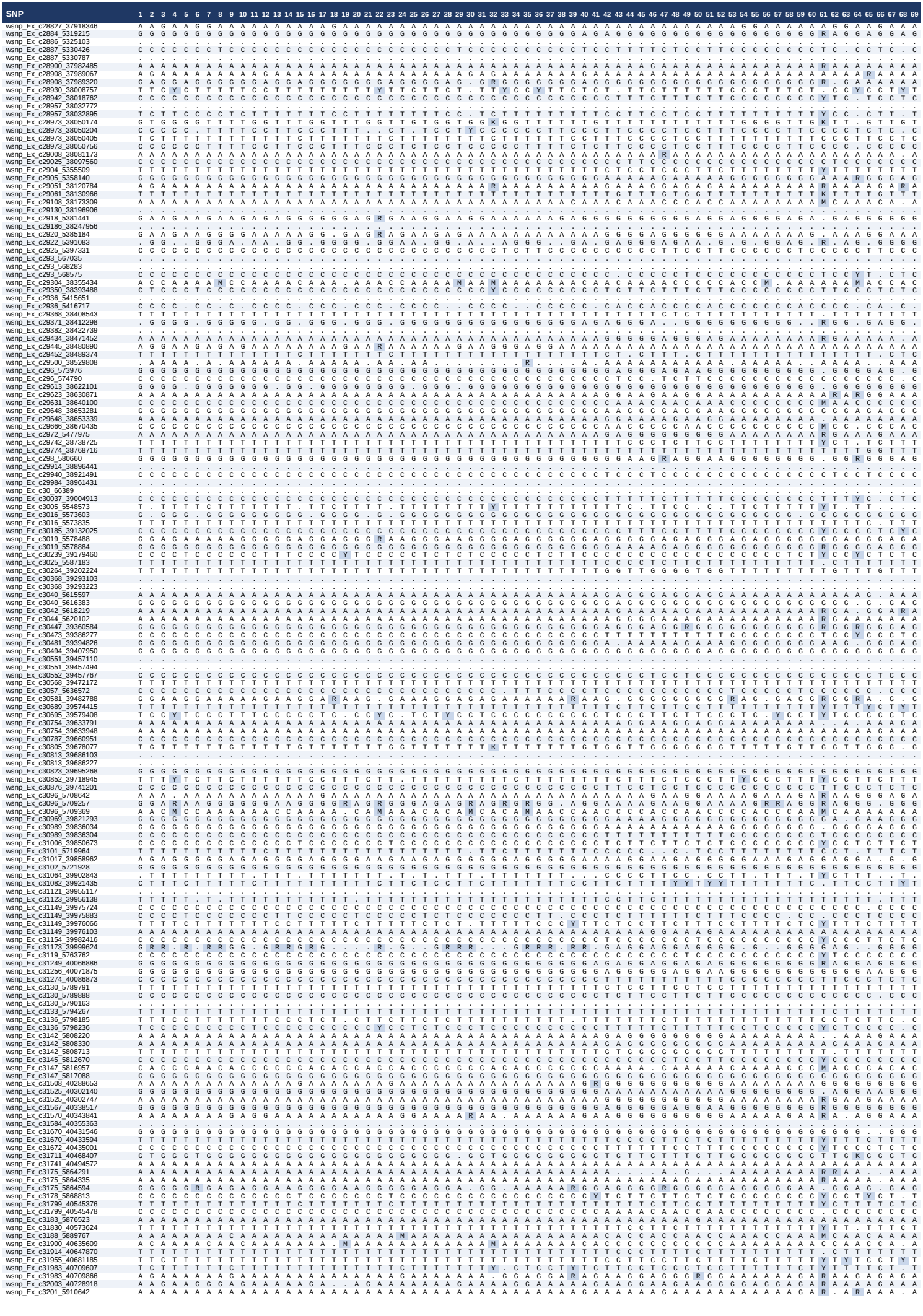
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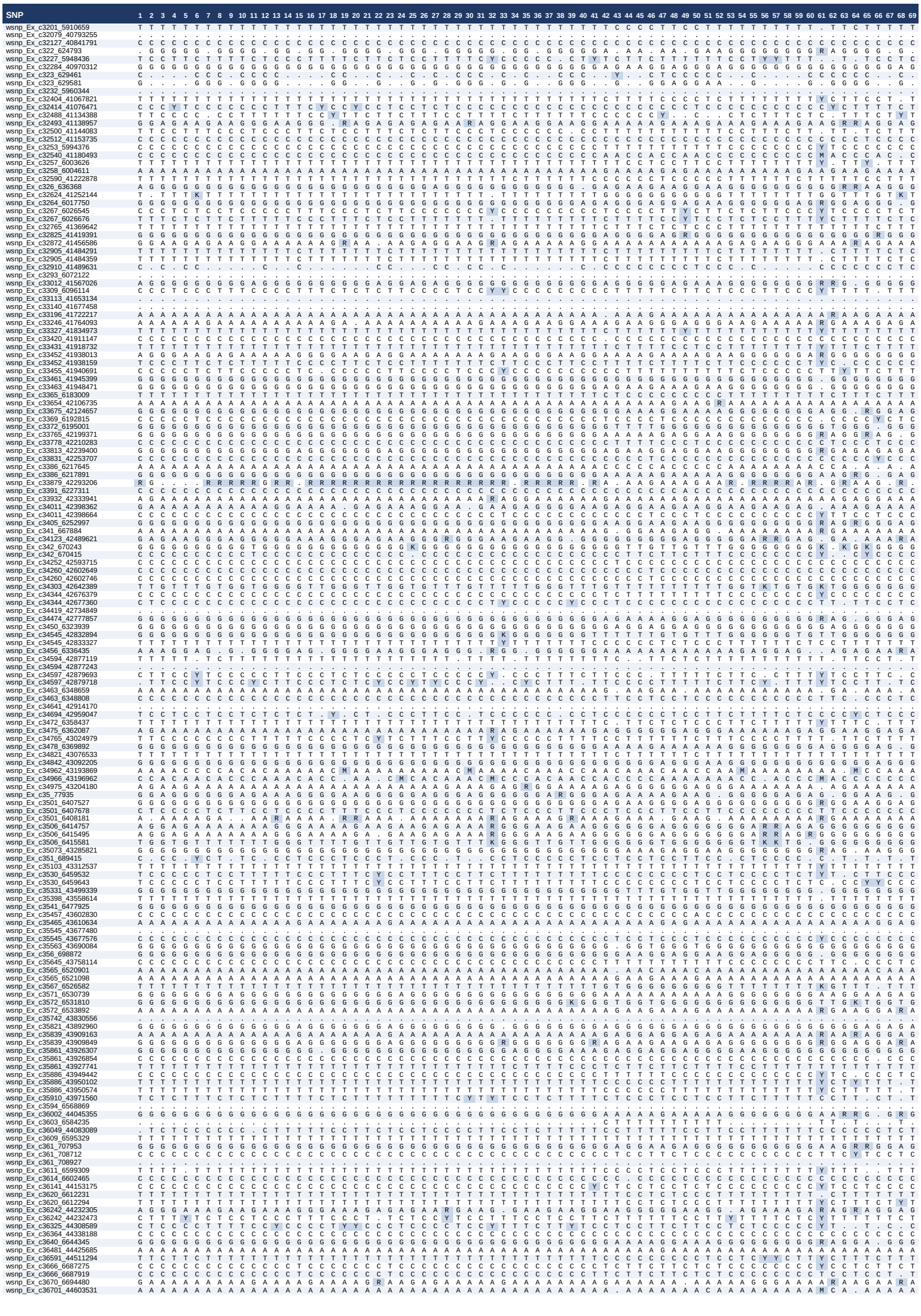
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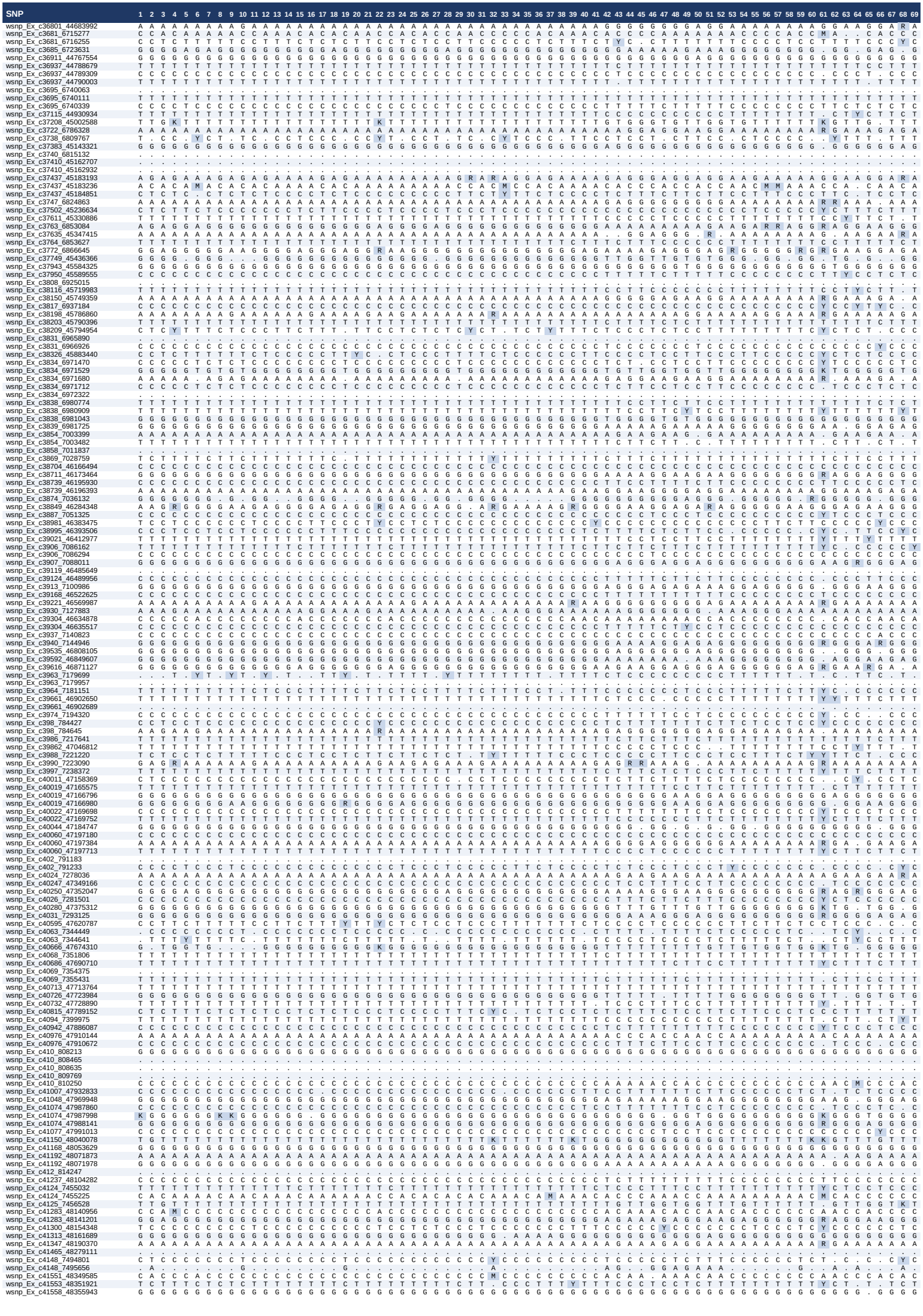
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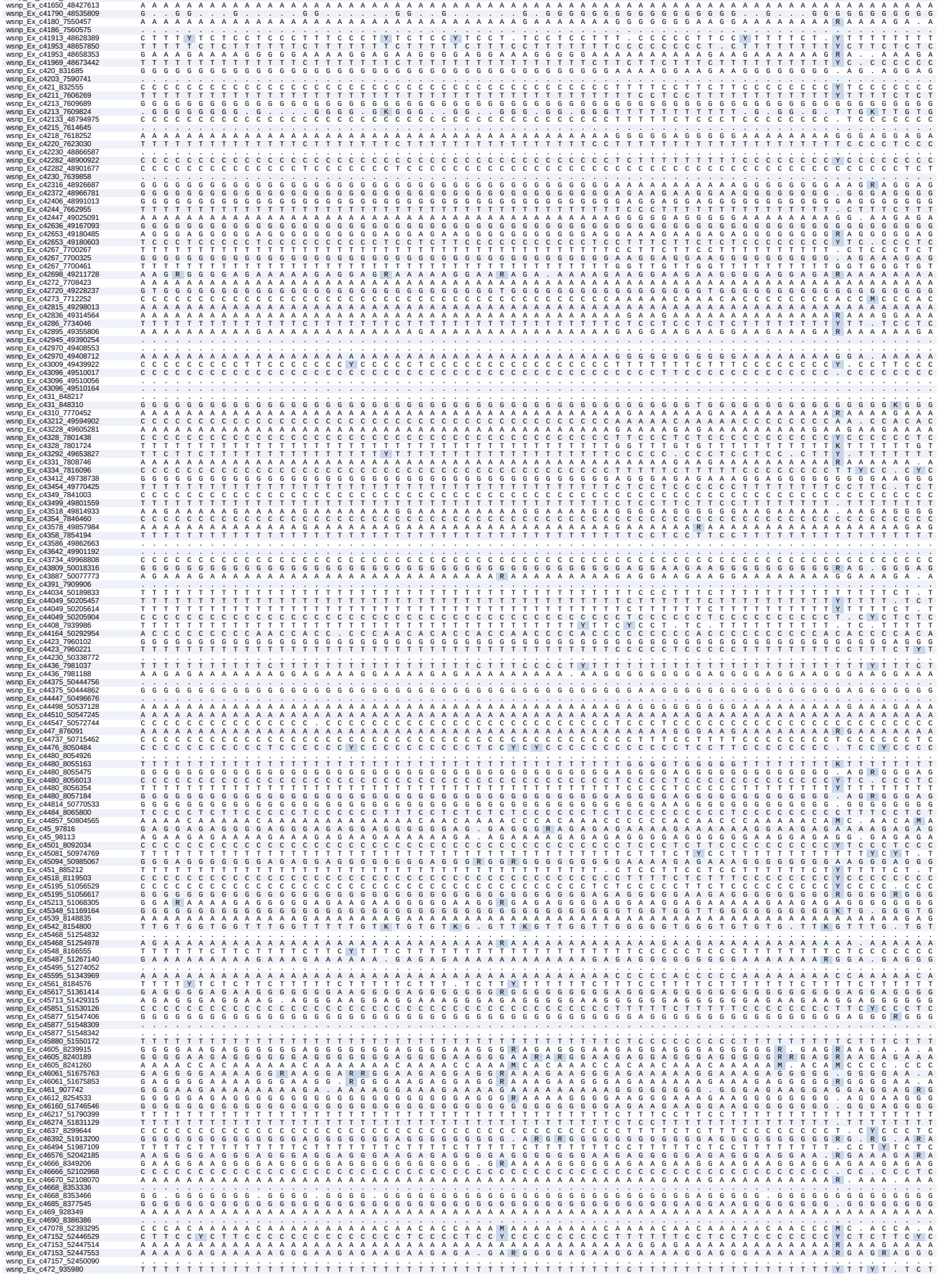
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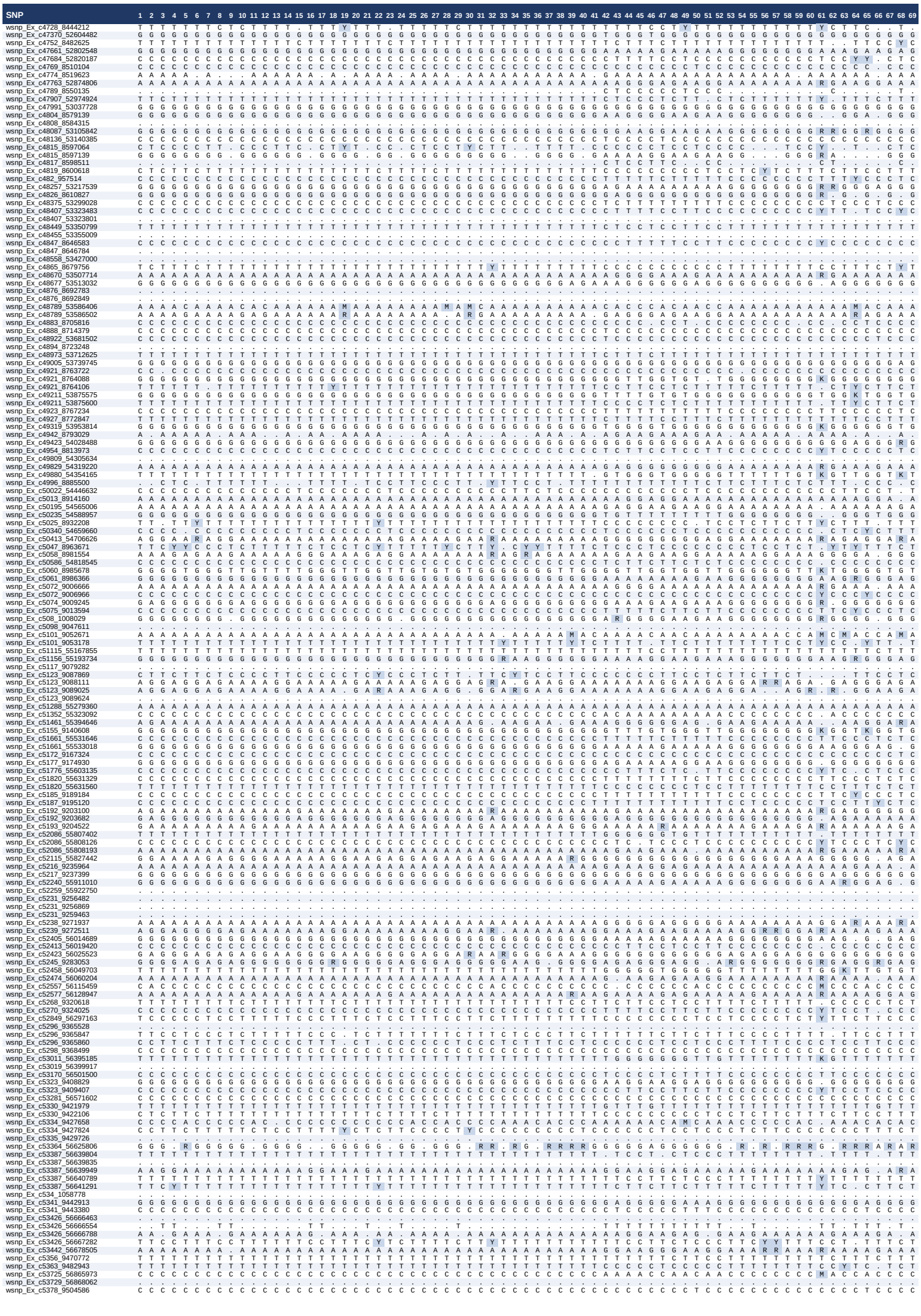
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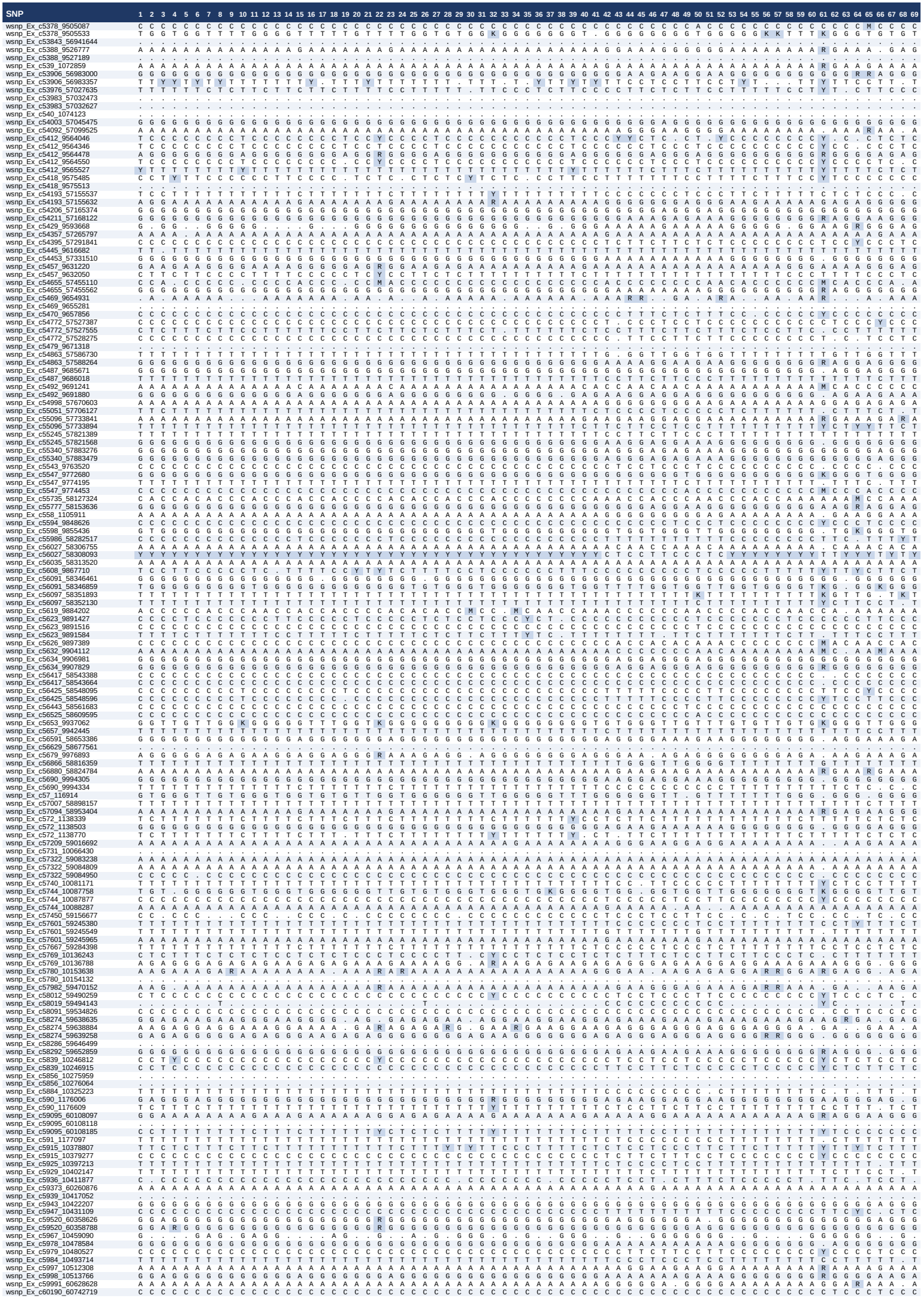
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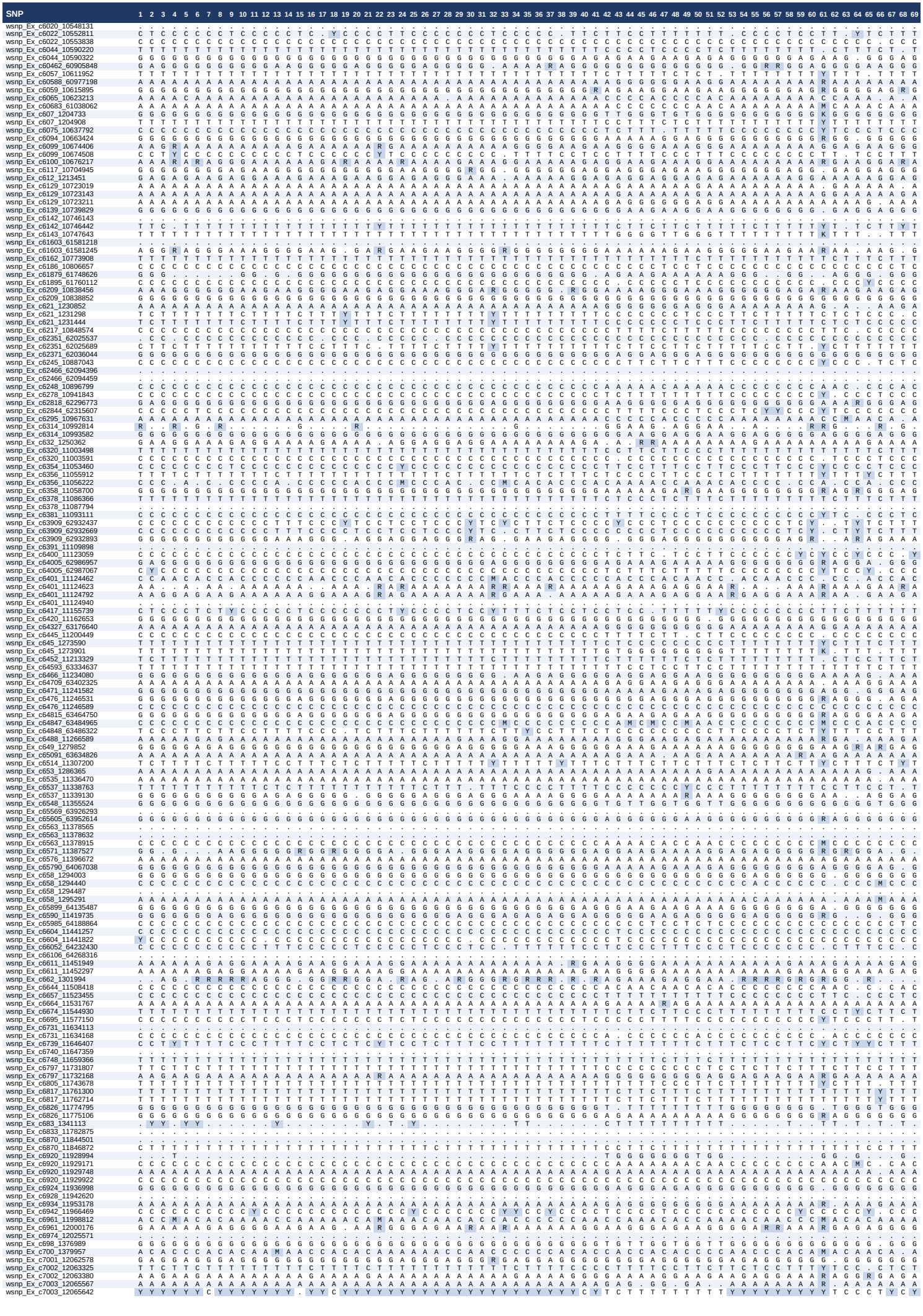
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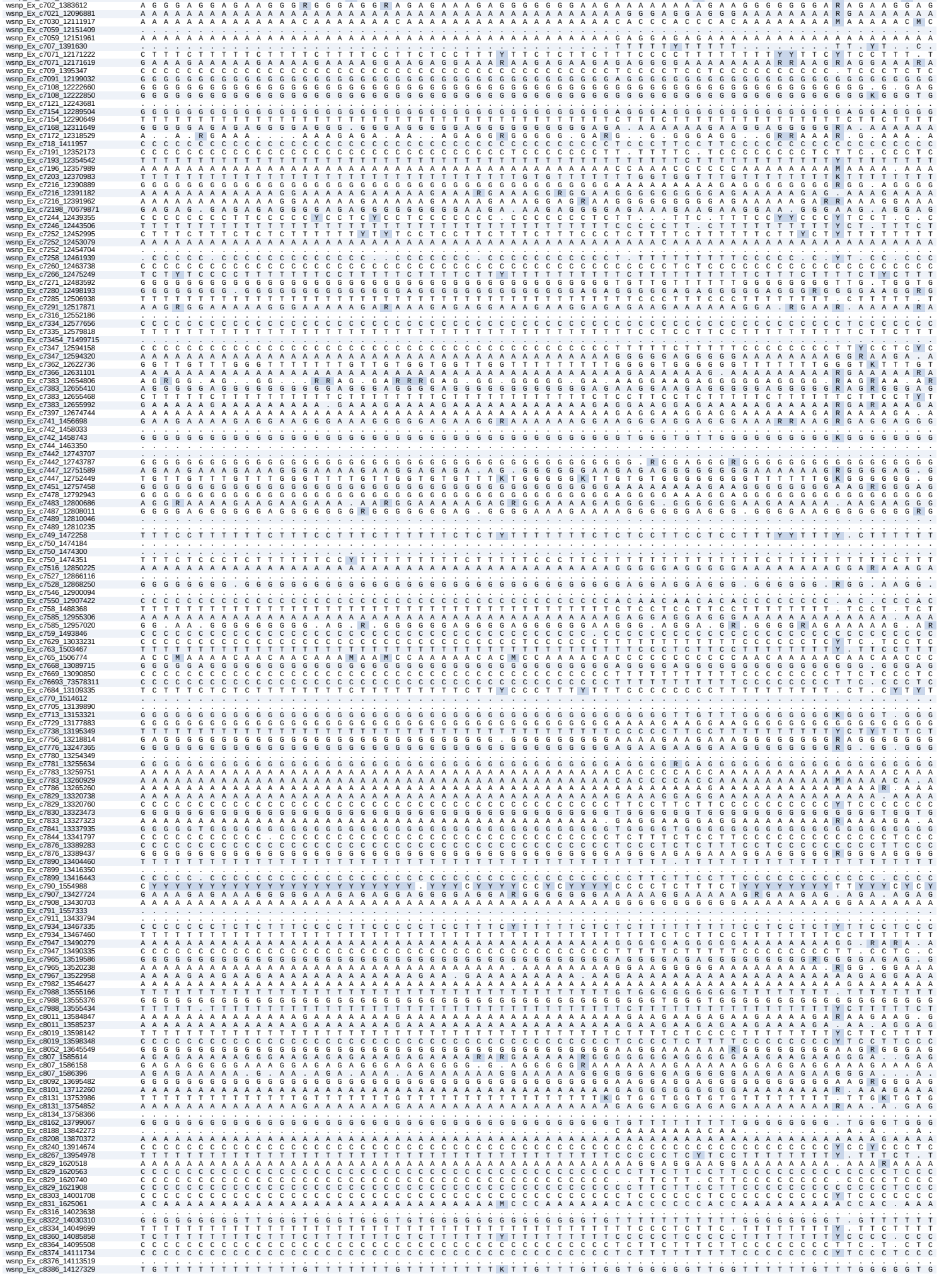
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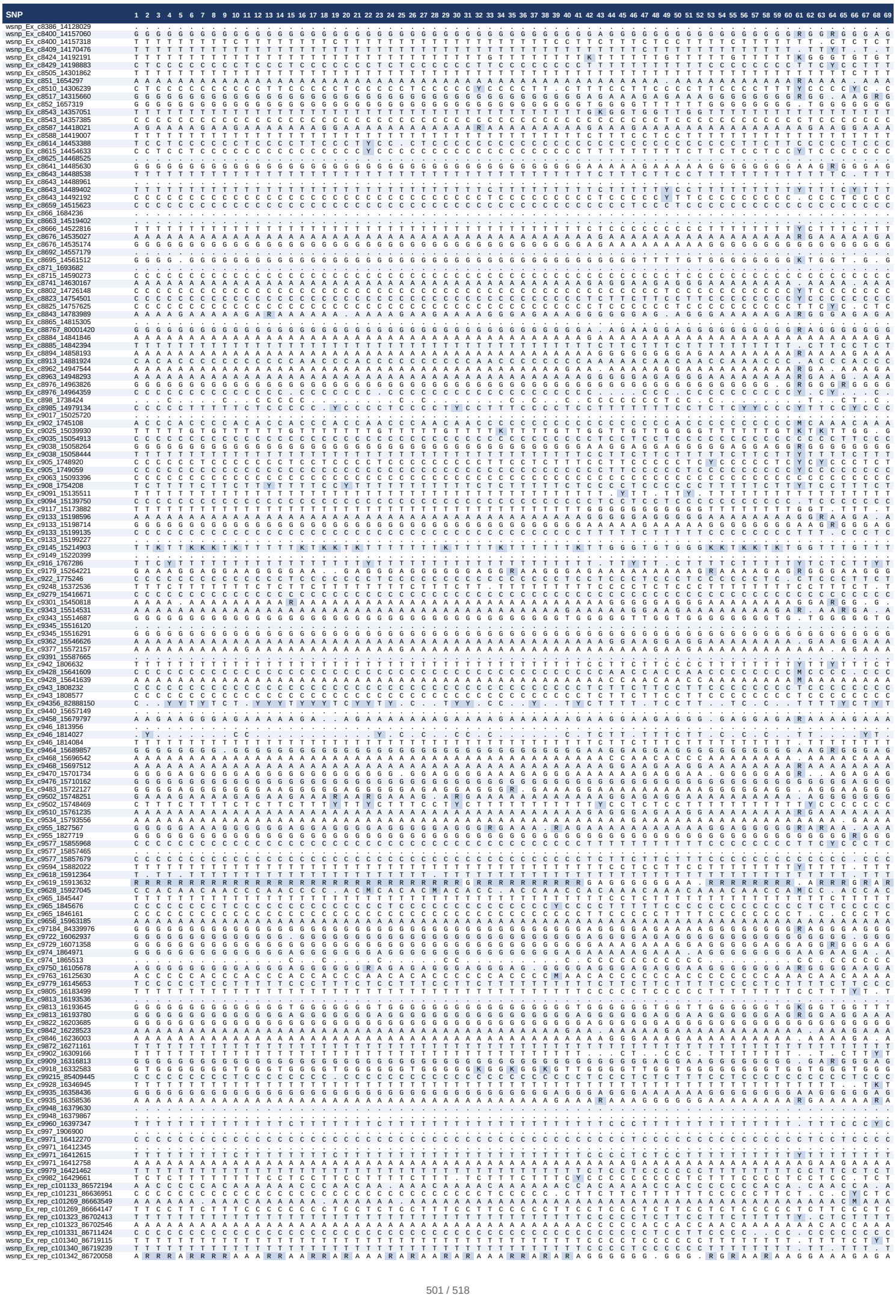
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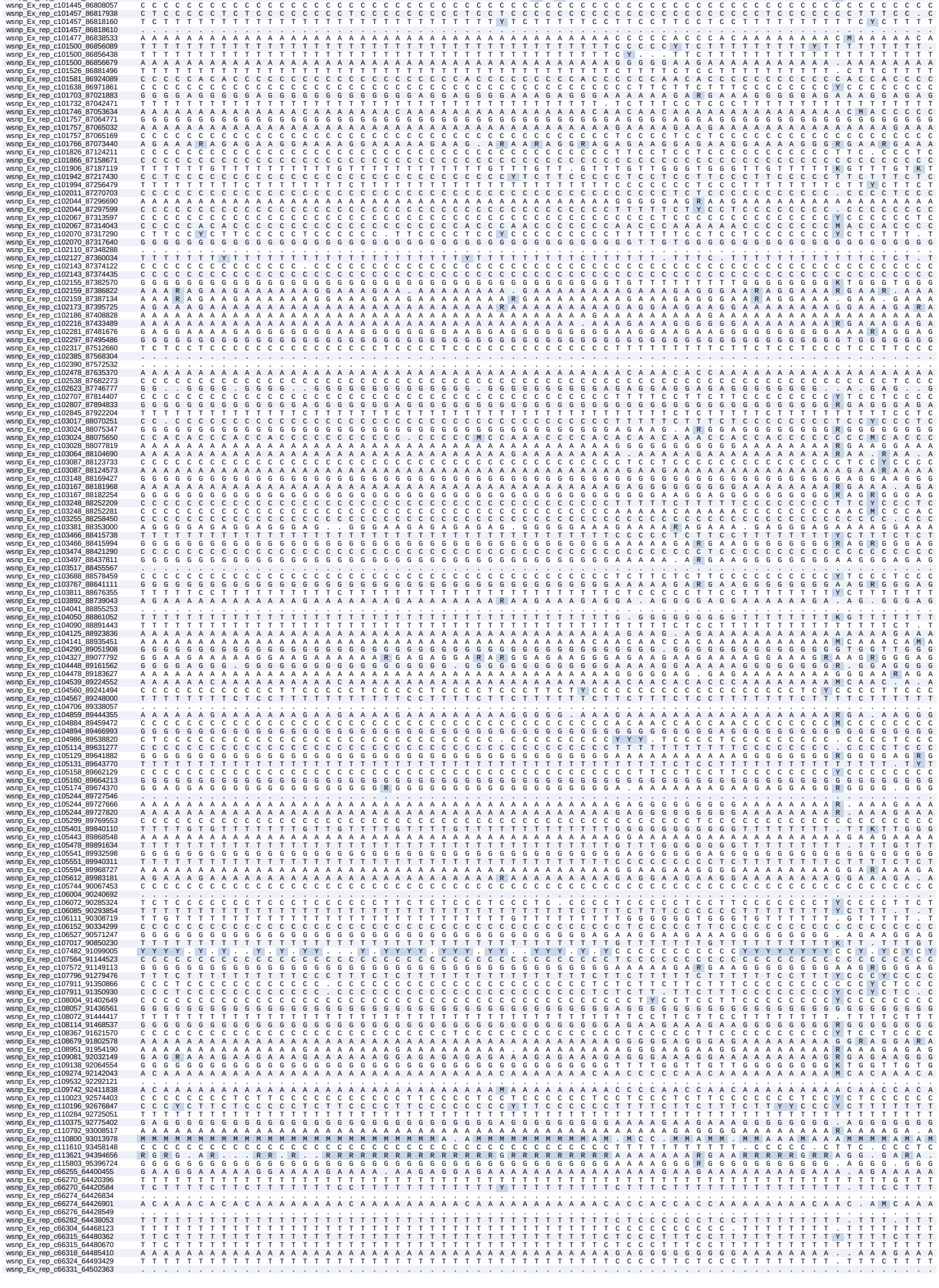
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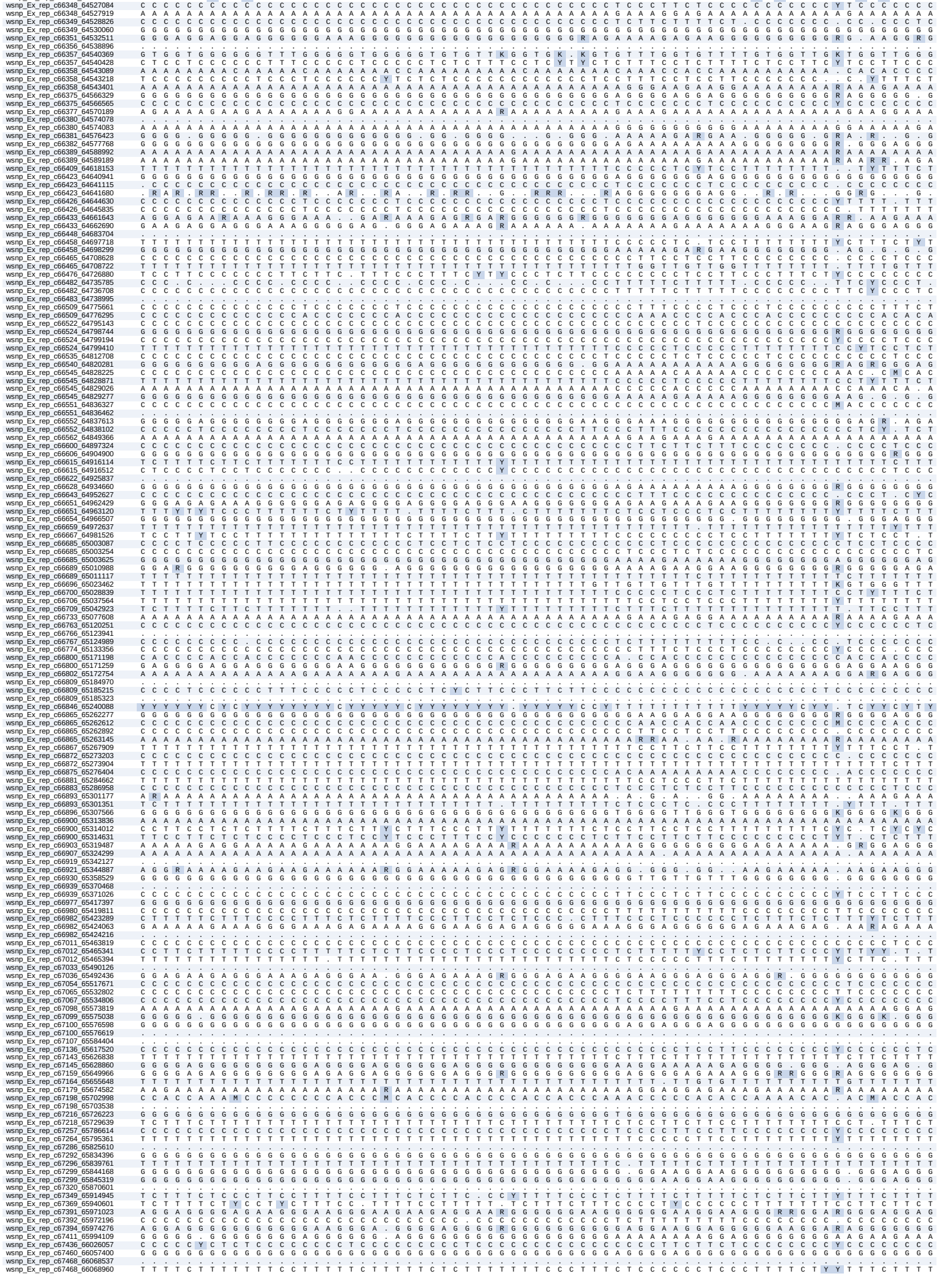
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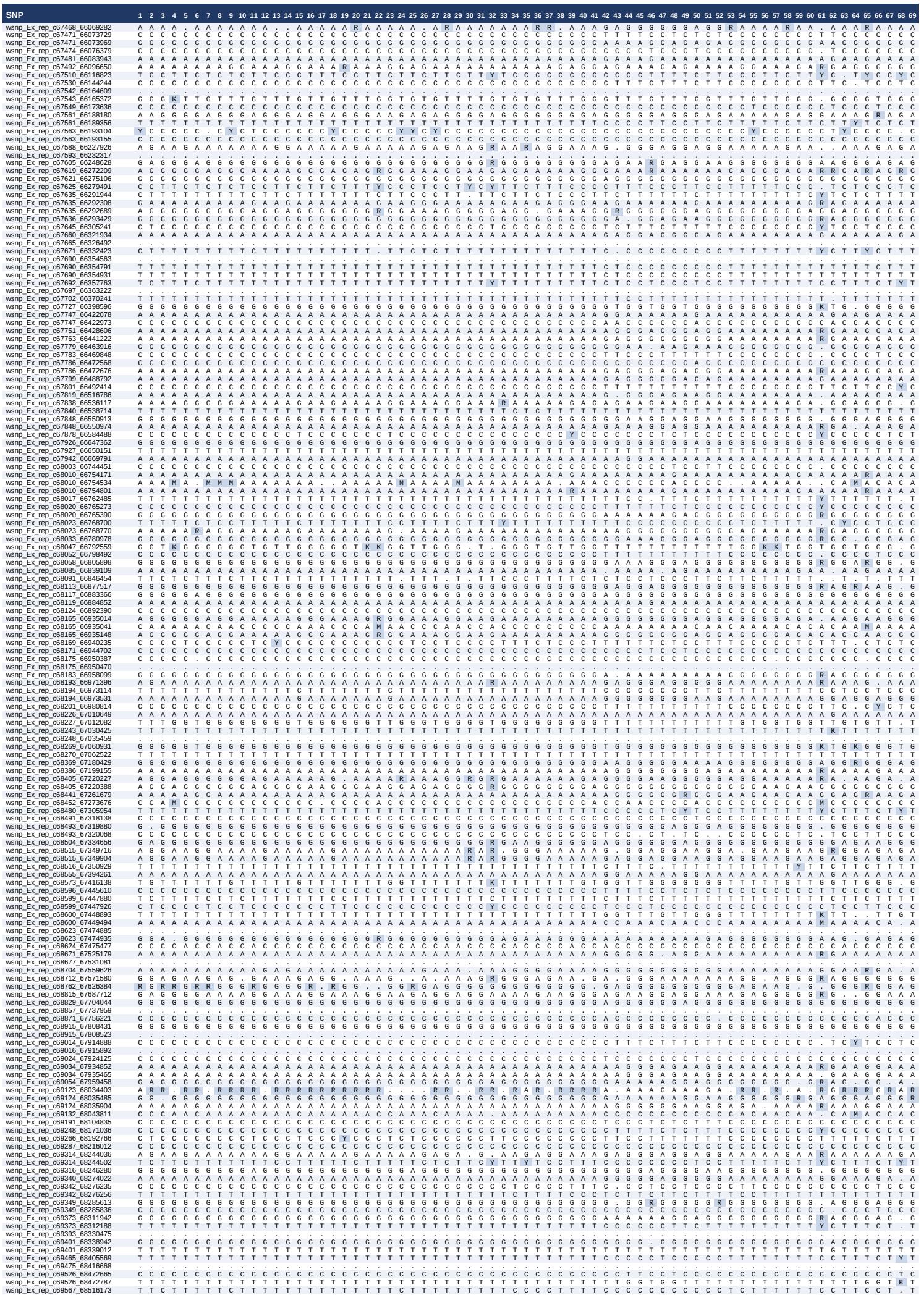
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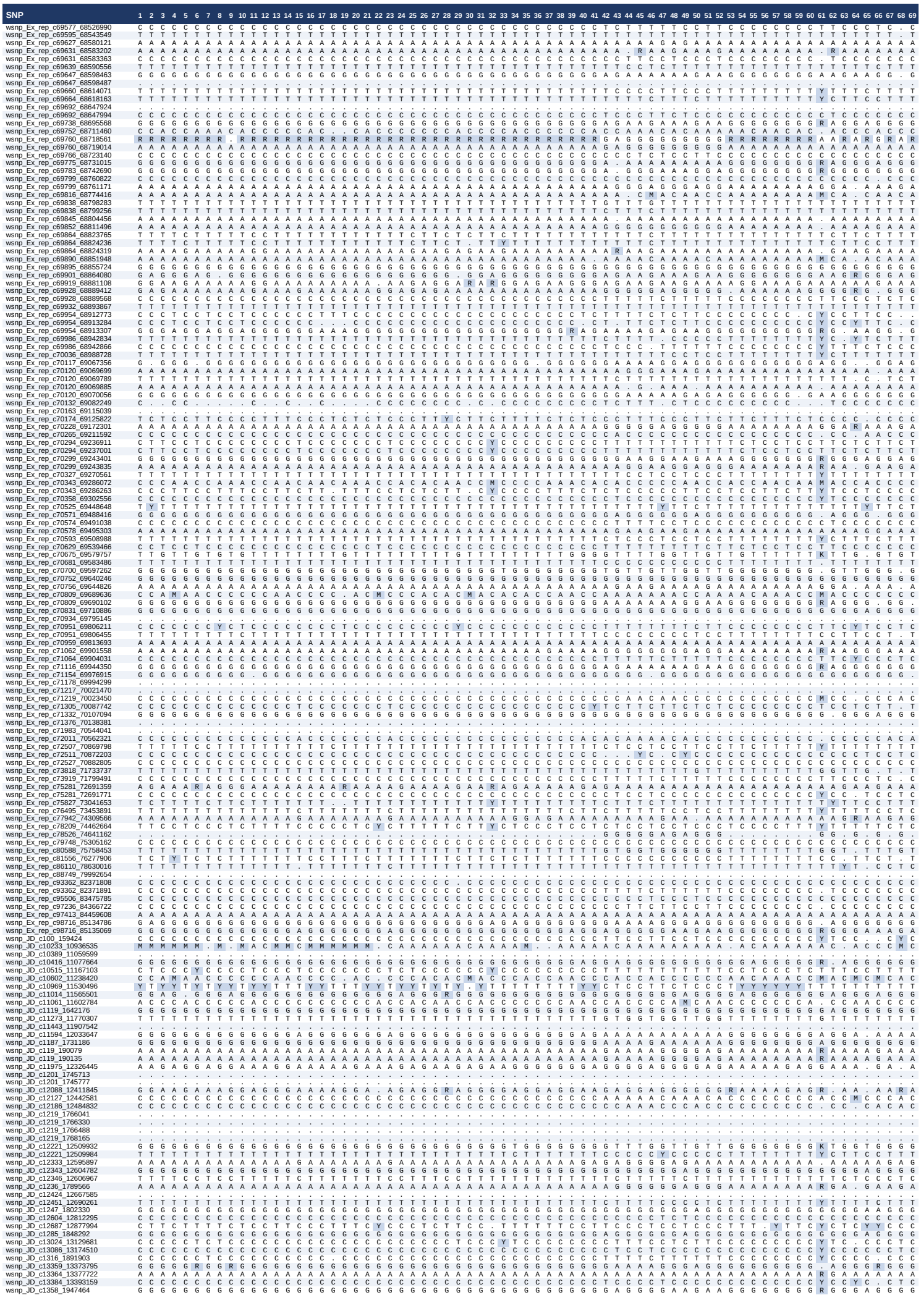
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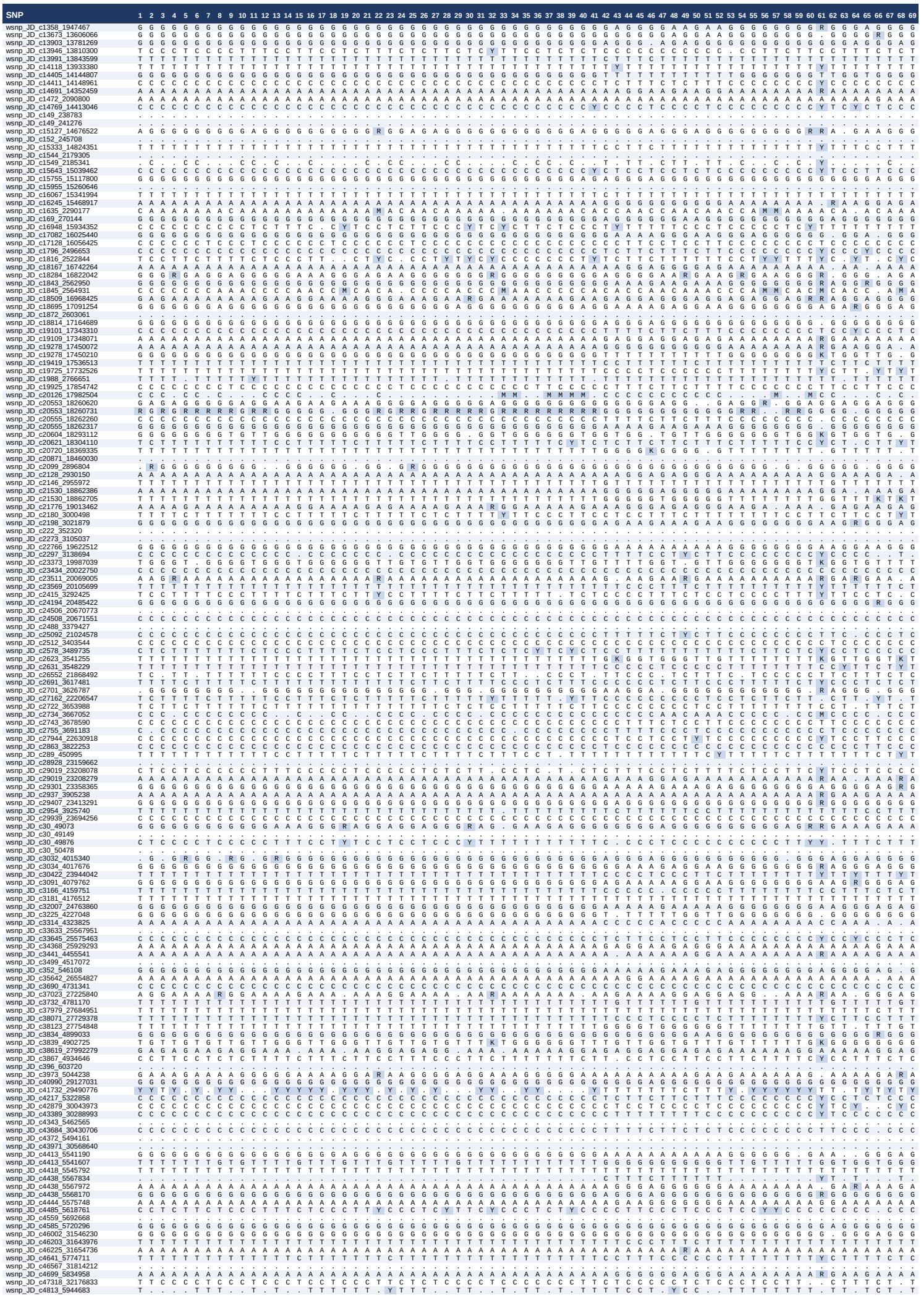
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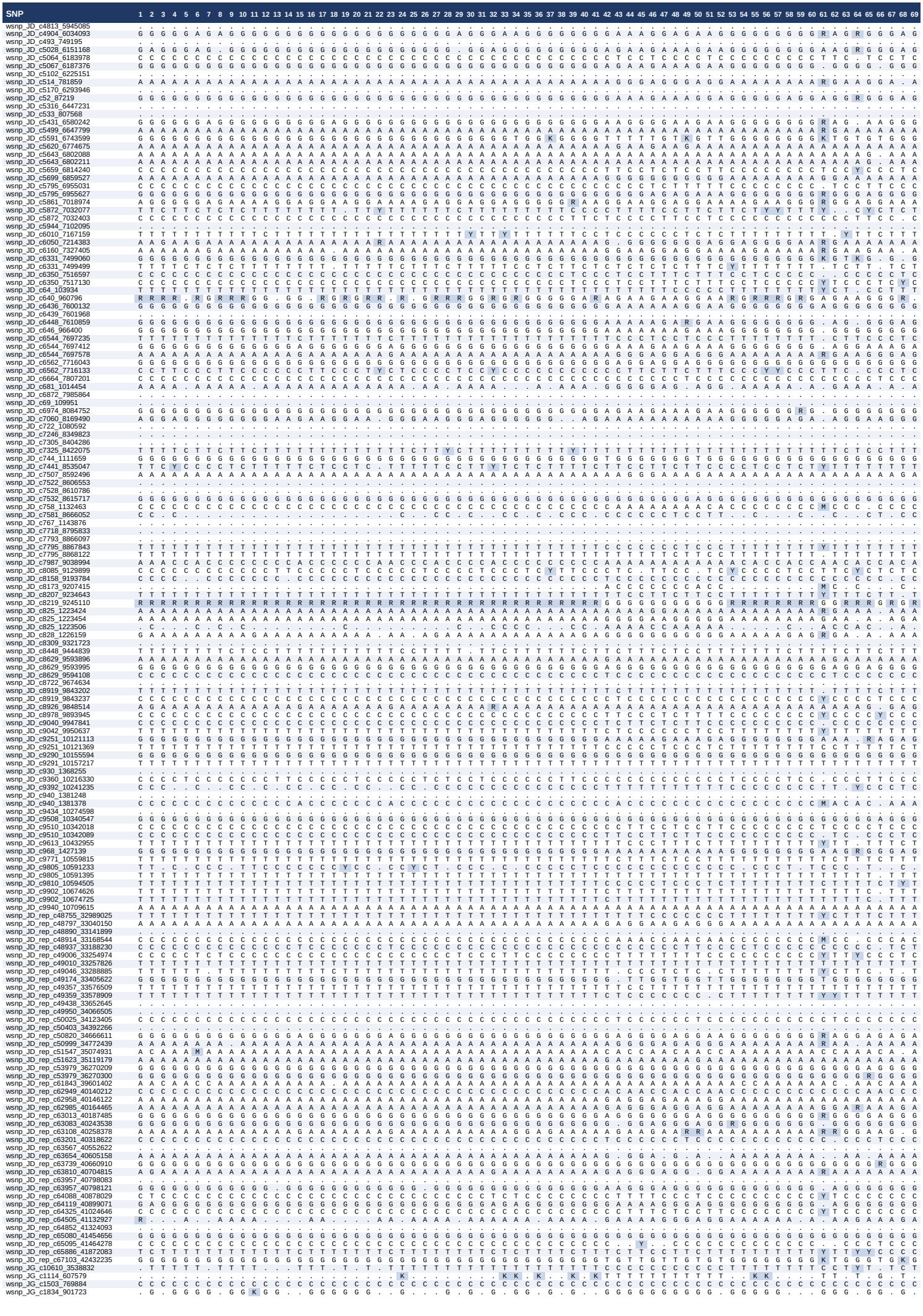
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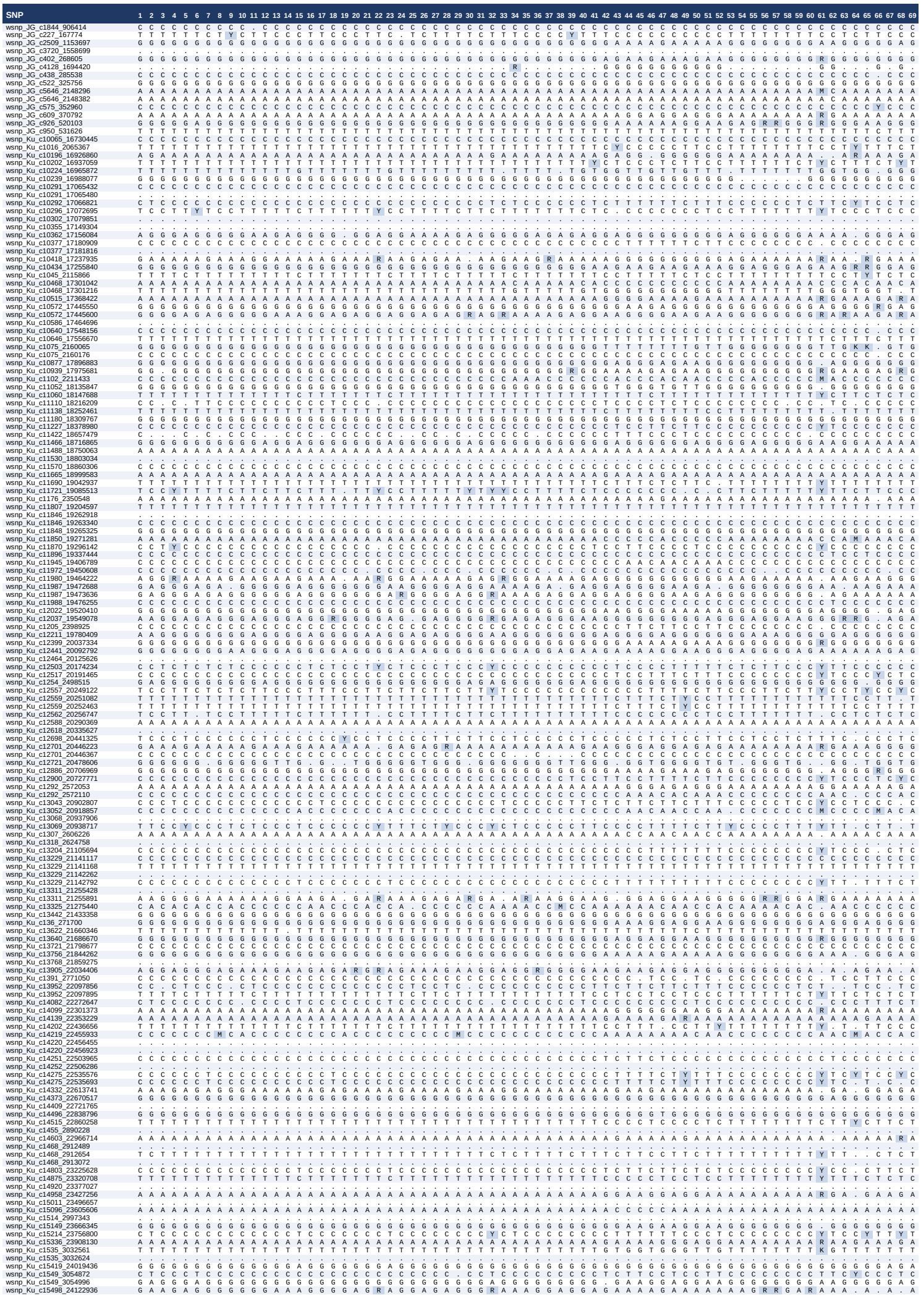
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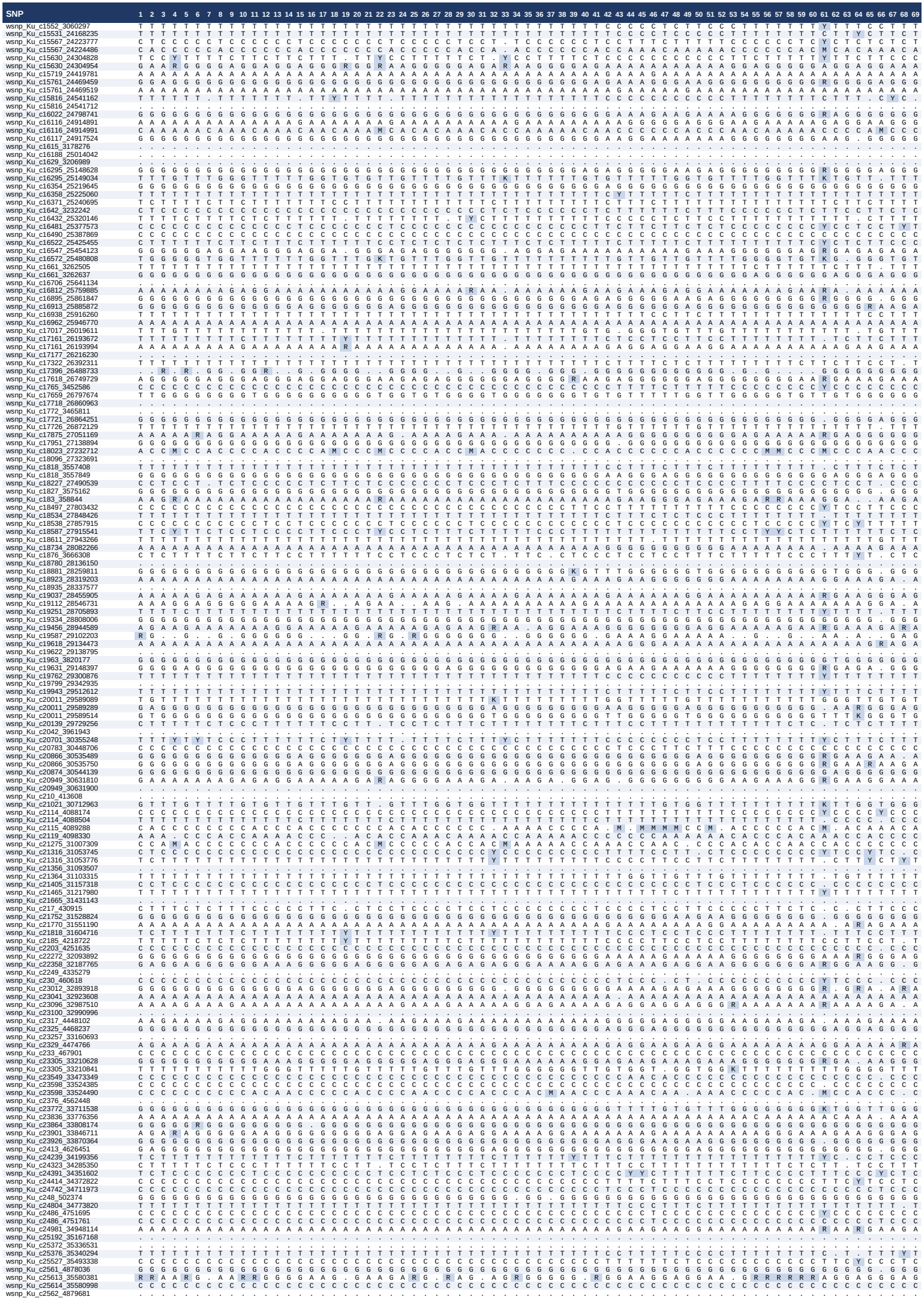
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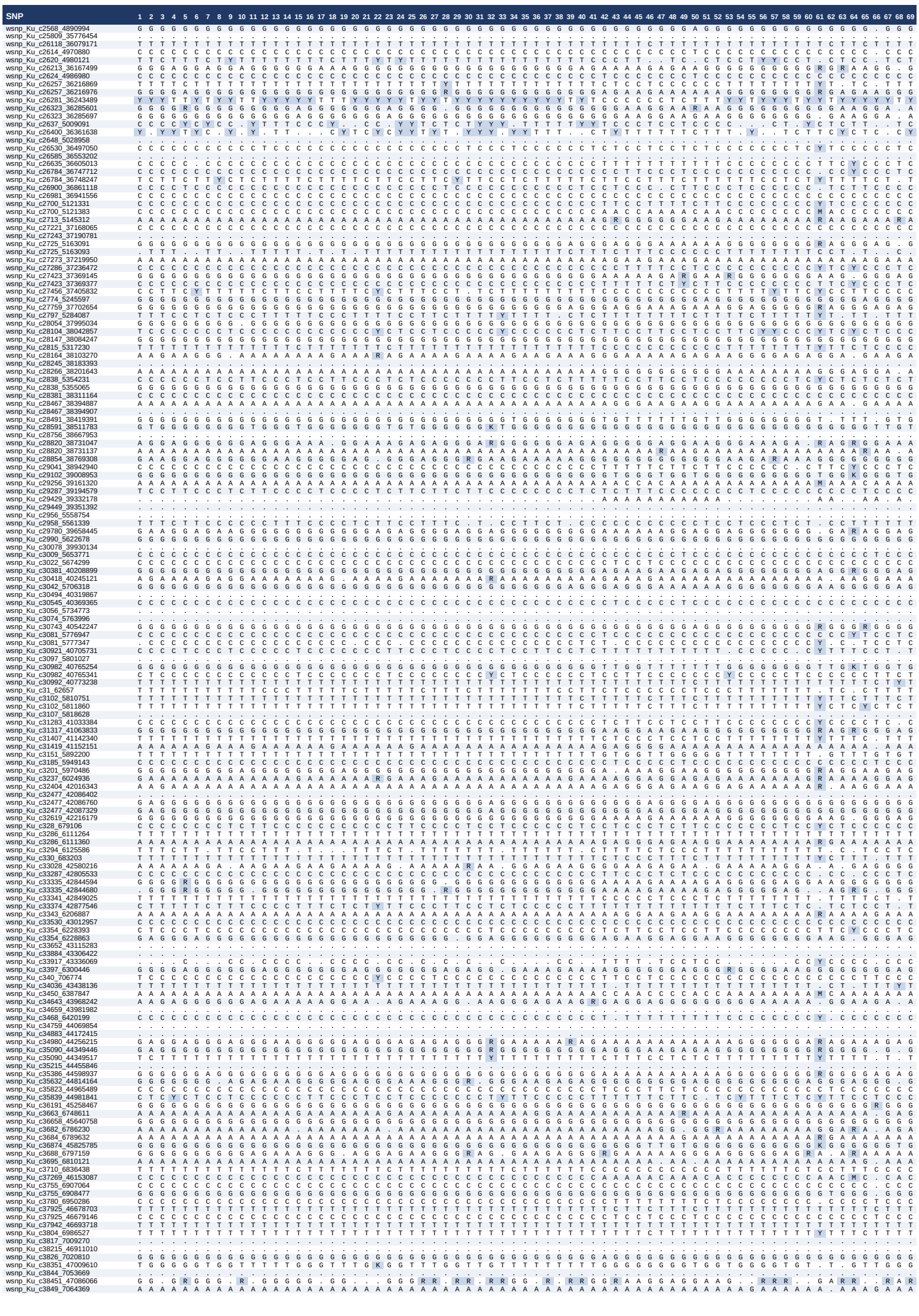
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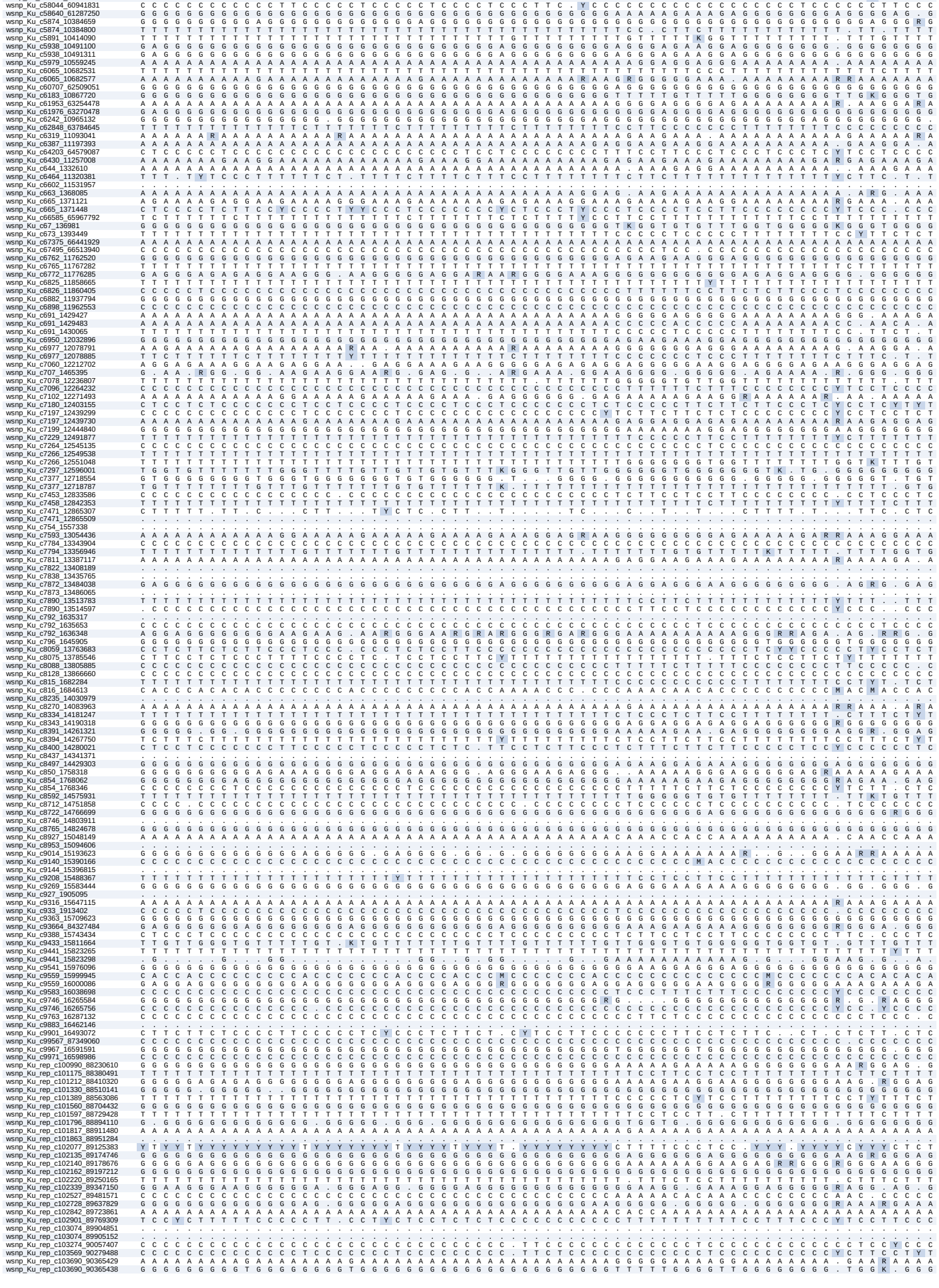
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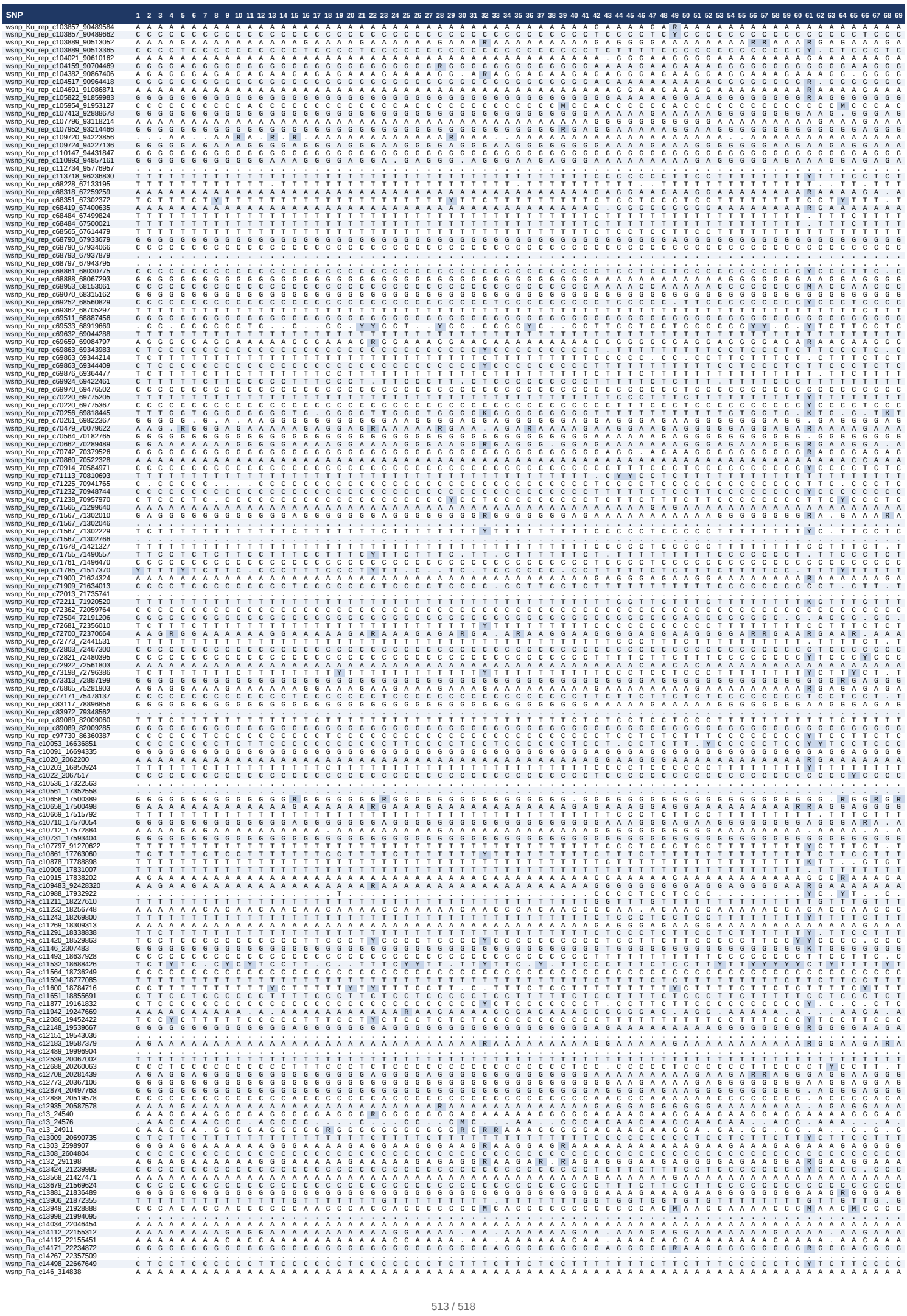
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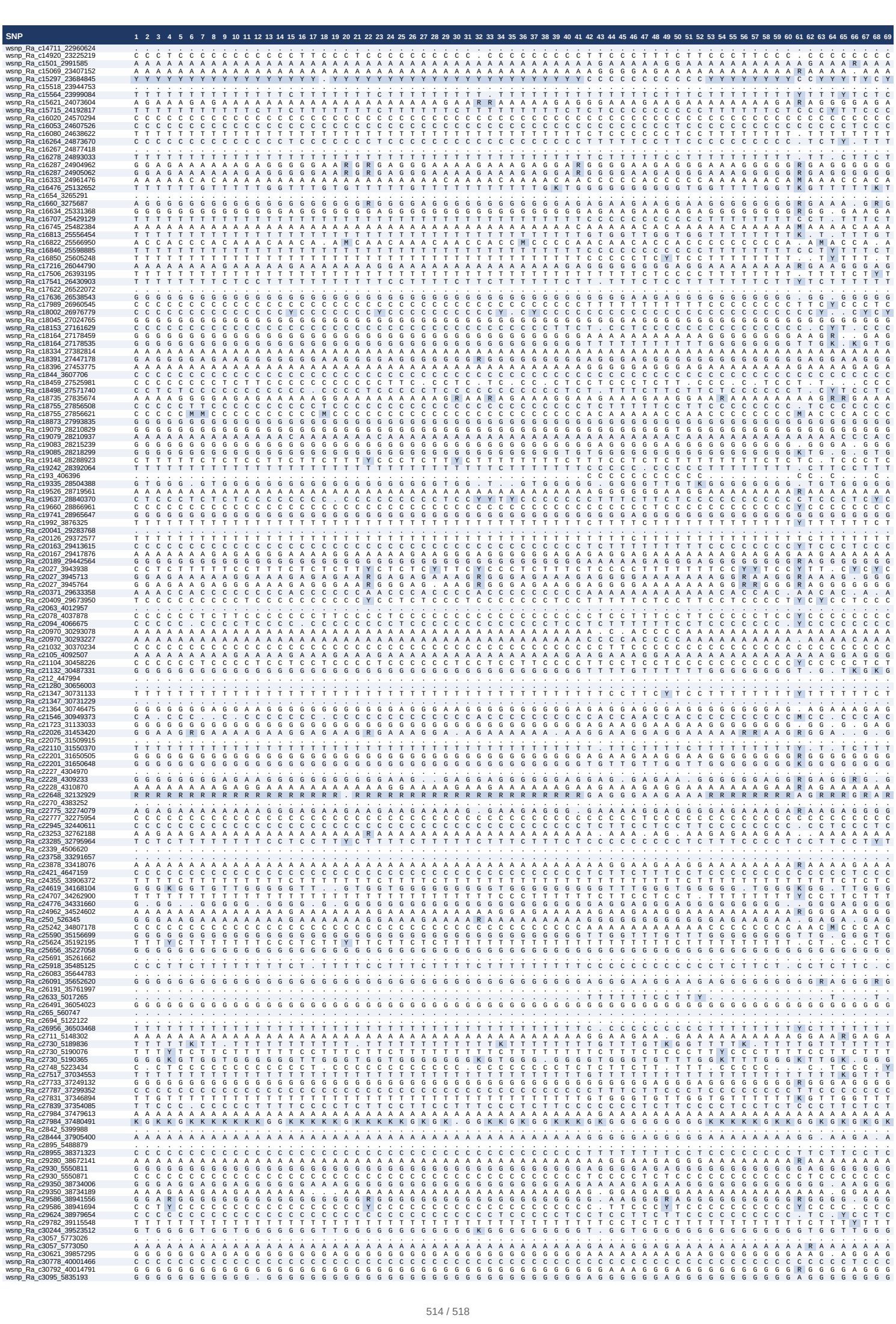
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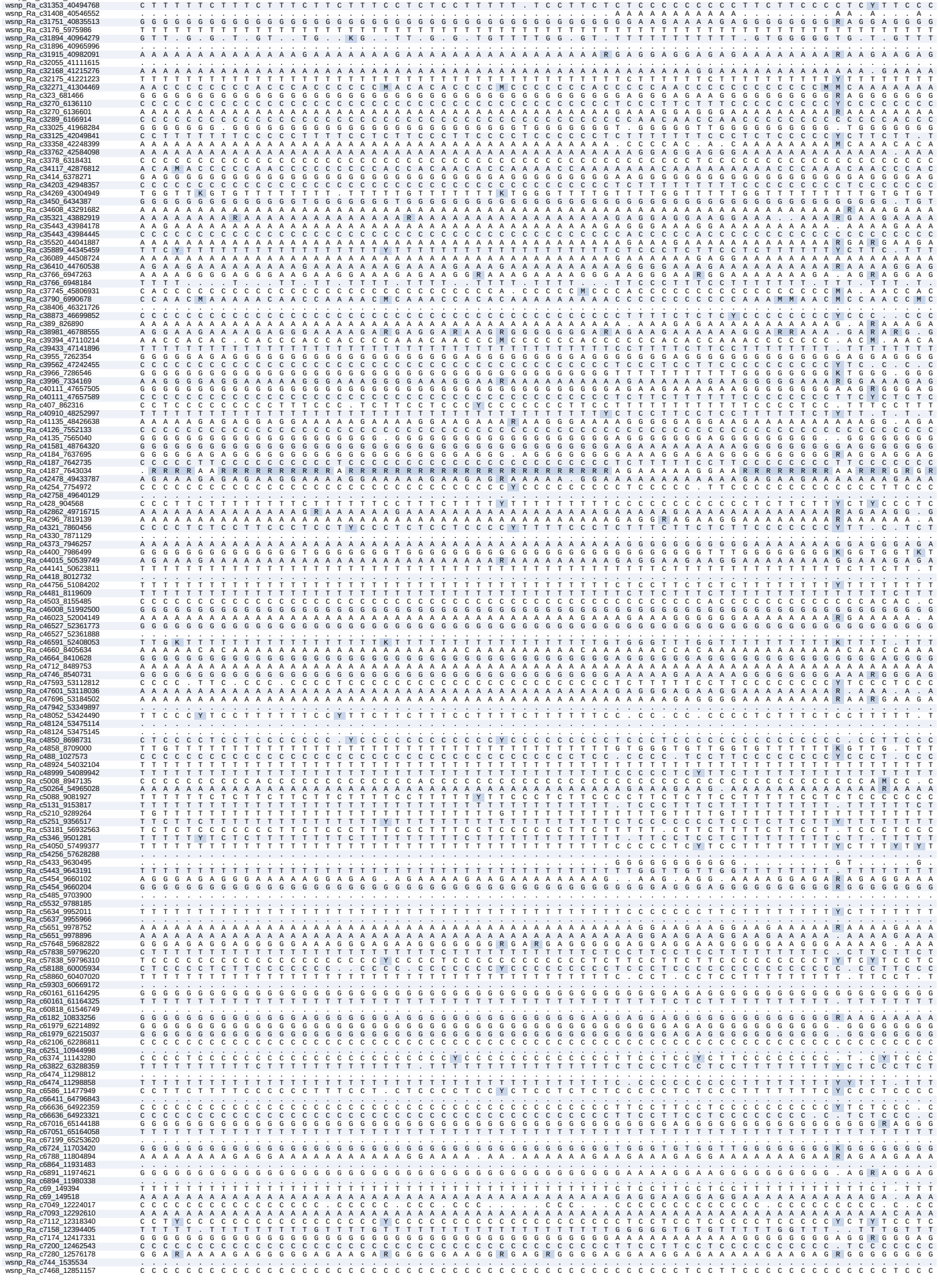
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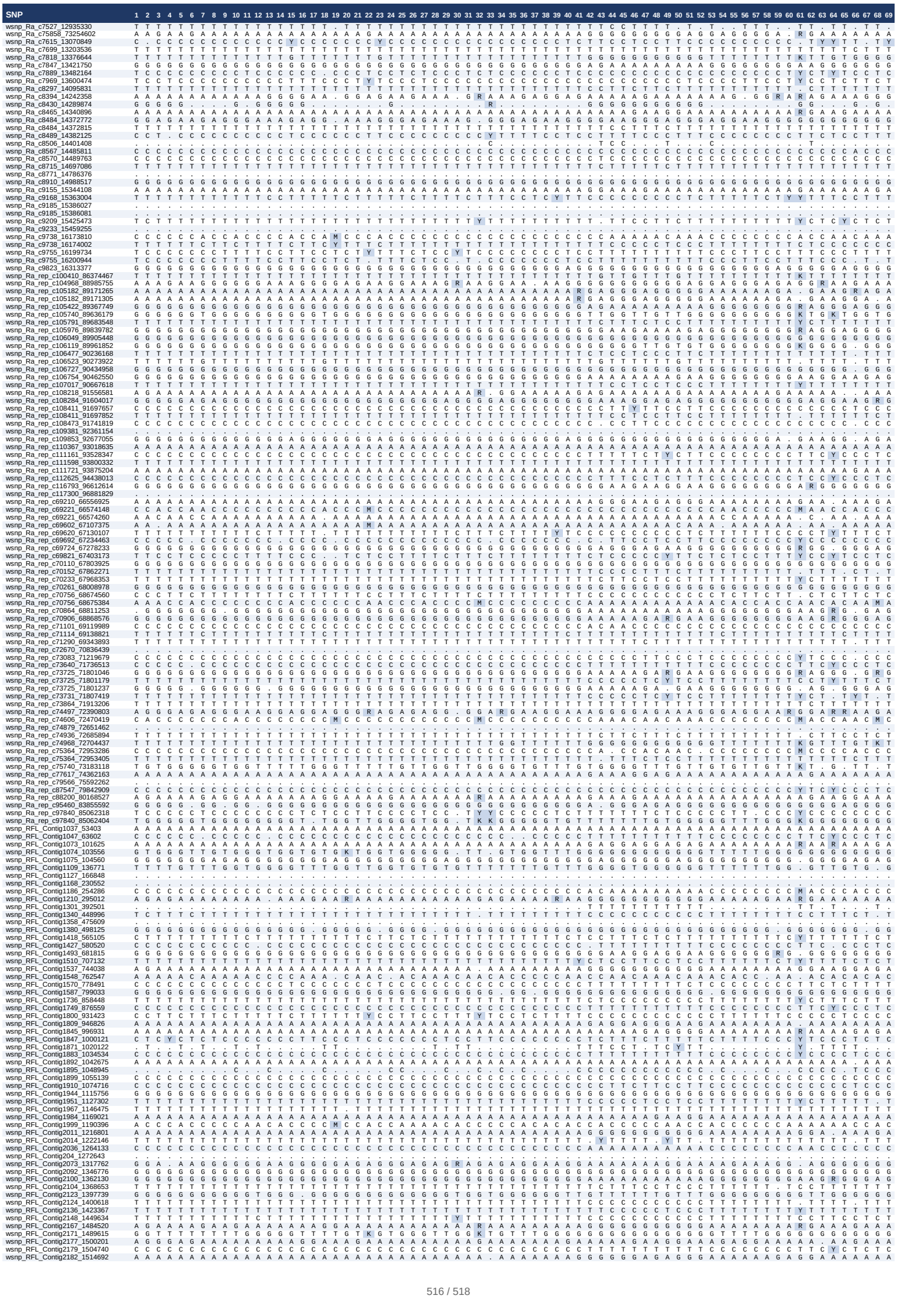
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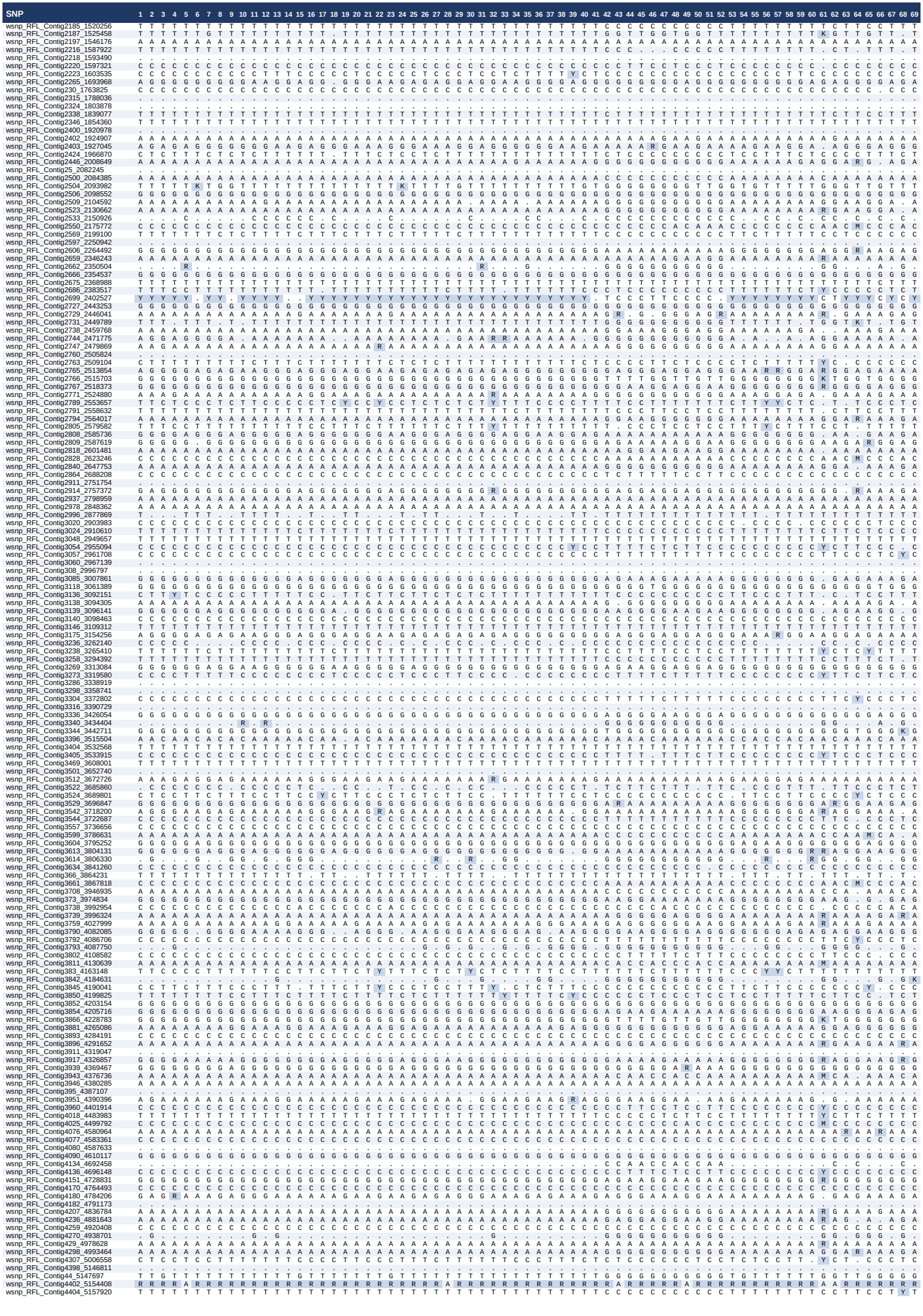
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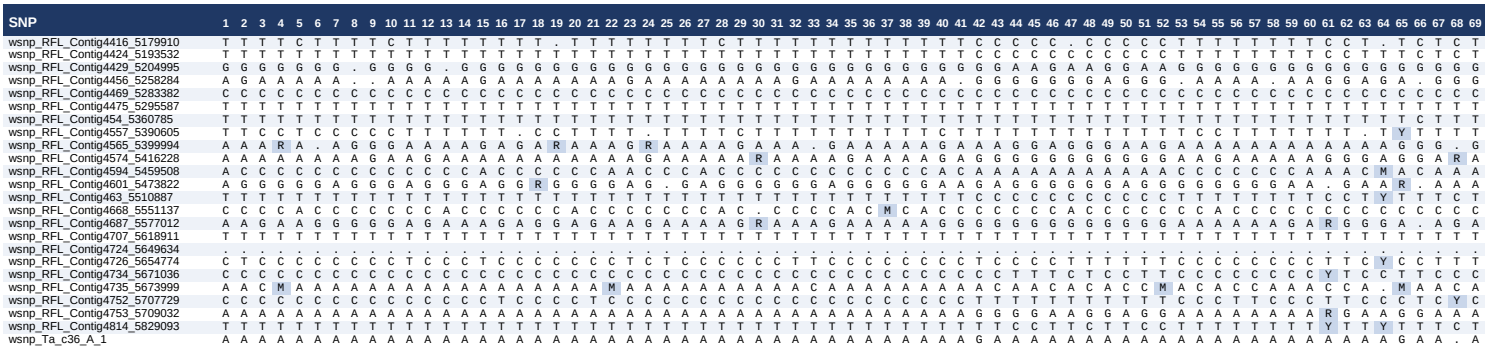

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