

Supplementary Information

Supplementary Methods and Discussion

Normalization

Because the raw intensity varies from cluster to cluster and based on position within the flow cell during sequencing, we tested several possible strategies to normalize for these factors before settling on using the mean intensity measured during the sequencing cycles. Reasoning that clusters containing TGASTCA motifs should have similar GCN4 binding intensity, we evaluated potential quantities for normalization by their correlation with GCN4-binding intensity in these clusters:

Normalization quantity	Pearson correlation with GCN4-binding intensity
Mean sequencing cycle intensity	0.6993
Mean sequencing cycle intensity, sum of the four channels rather than highest	0.6149
Median sequencing cycle intensity	0.6991
Last sequencing cycle intensity	0.5636
Maximum sequencing cycle intensity	0.5574

If each intensity measurement is noisy, resulting in cycle-to-cycle variability, using all of the measurements rather than the last cycle or the maximum cycle provides a more accurate estimate of cluster size.

The background intensity is calculated as the median normalized intensity over all clusters and is then subtracted from the normalized intensity of each cluster to yield the normalized intensity above background. The intensity reported in all figures is the normalized intensity above background, corrected for photobleaching.

Technical corrections

To determine the corrections needed for mapping normalization, photobleaching, and other factors, we performed a set of pilot experiments using various lengths of random oligomers.

We focused on the intensity of sequences containing the canonical GCN4 binding motif (TGASTCA, where S = C or G), reasoning that most of the variation in the intensity of these clusters would be due to technical rather than biological reasons. Variables correlating with the intensity of these clusters should therefore be corrected for.

First, we examined whether the motif position in the sequence correlated with intensity due to accessibility of different parts of the DNA. We observed no correlation between the position of the motif within the cluster sequence and the distribution of raw intensities for motif-containing clusters of size 25 (Supplementary Figure 1).

Additionally, the raw intensity of motif-containing clusters was similar for clusters containing 20-mers and 15-mers. Therefore, we performed future analyses using 25mers.

In contrast, we found that intensity of motif-containing clusters was strongly influenced by position within a particular imaging tile (data not shown). For each tile, a different spatial pattern of average intensity was observed. Therefore, we investigated normalization based on the average sequencing intensity of a cluster or the fluorescent intensity of a labeled primer. The average sequencing intensity correlated better with Gcn4p fluorescent intensity for motif-containing clusters ($R^2 = 0.48$) than the intensity of a labeled primer with Gcn4p intensity ($R^2 = 0.30$). One interpretation of this data is that the intensity measurements are inherently noisy, and that averaging over dozens of sequencing cycles provides a better measurement of cluster size and brightness than a single measurement. As a result we proceeded with analysis based on protein intensity normalized by the average sequencing cycle intensity, reducing noise due to technical reasons.

To determine the efficiency of washing and photobleaching, we performed an experiment in which we imaged a bound flow cell twice in a row without washing, and in a separate experiment imaged after washing. We found that the second round of imaging without washing reduced fluorescent intensity of TGASTCA clusters by roughly 35%, presumably due to photobleaching. The washing reduced intensity of an average cluster by roughly 65%. When we sequentially flow on increasing concentrations of Gcn4p, we do not completely wash off the protein on the flow cell, and some of what remains will be photobleached. Therefore, we correct the intensity at concentration i (C_i) using the equation:

$$C_{i,\text{corrected}} = C_i + C_i - 1 \times (1 - 65\%) \times (35\%)$$

This equation assumes that the fraction of Gcn4p remaining after washing and photobleaching will remain bound in the next set of imaging. We believe this to be a reasonable assumption, given that without this correction we observe decreasing Gcn4p signal for TGASTCA clusters at the highest concentration. This assumption is also supported by kinetics experiments showing that the off-rate of Gcn4p is quite low¹.

While 65% of intensity is washed away on average, the proportion of intensity washed away is not the same for all motifs. For example, clusters with the strongest binding 8mer, ATGACTCA, had intensity reduced by only 43%. However, because we increase the protein concentration by 5-fold at each step, after accounting for photobleaching this would affect the measured intensity by less than 3%.

Dissociation constants

The dissociation constant was first determined for the canonical motif, defined as TGACTCA for 7mers, ATGACTCA for 8mers, ATGACTCAT for 9mers, or

TATGACTCAT for 10mers. Dissociation constants were calculated by least squares fit with the hill coefficient constrained between 1 and 2 and the maximum intensity constrained to be positive, using the equation:

$$\phi_B = [\text{Gcn4p}]^h / ([\text{Gcn4p}]^h + K_d^h) \times s$$

Where ϕ_B is the fraction of DNA bound, $[\text{Gcn4p}]$ is the Gcn4p concentration, K_d is the dissociation constant of Gcn4p to the sequence, h is the Hill coefficient of binding, and s is a scaling factor for the maximum intensity. For the remaining k -mers, dissociation constants were calculated as before but with s fixed at the value determined for the consensus k -mer. The K_d was constrained to be at most 1 μM because the highest concentration of Gcn4p tested was 625 nM. Dissociation constants were determined separately for each lane, and the geometric mean and standard deviation were calculated, treating each lane as a technical replicate. To remove binding artifacts, only k -mers having a K_d less than 1 μM in at least three lanes were assigned a mean K_d of less than 1 μM .

Quality filter for lanes

We observed that one concentration value (25nM) seemed to fail for two of the lanes examined (3 and 5), because clusters containing the TGASTCA motif had no signal above background for these lanes, although strong binding was observed for the other 5 lanes. As a result, lanes 3 and 5 were not used for K_d calculations. K_d values calculated with and without lanes 3 and 5 were relatively similar (generally within 30%).

Iterative motif finding

In order to estimate K_d values for short k -mers, e.g. 8mers, from longer sequences, e.g. 25mers, one must be able to assign binding intensity to the proper k -mer. Because the oligonucleotides clustered on the flow cell were relatively short (25 nt) in our experiments, it is extremely rare for a specific k -mer sequence to occur in a cluster more than once (roughly 0.1% of the time for 7mers). Because of this fact, we employed an iterative algorithm to assign binding intensities to k -mers: For each sequence of size k , we calculated the median intensity at a Gcn4p concentration of 125nM over all clusters containing that k -mer or its reverse complement. We selected the k -mer with the highest median intensity at 125nM, determined its dissociation constant based on the median intensities, and removed all clusters containing this k -mer or its reverse complement from further calculations. We repeated this procedure iteratively until all remaining k -mers had K_d values greater than 1 μM , selecting sequences with affinity that could not be explained by occasional overlap with stronger binding sites. Due to computational limitations, we only performed the iterative removal of clusters for 9-mers containing 8mers that had K_d values less than 1 μM . Likewise, we only performed iterative removal of clusters for 10-mers containing 9-mers that had K_d values less than 1 μM .

Thus, we made the assumption that all of the intensity of the clusters containing the top k -mer comes from binding to that k -mer itself, and not to others. In the case of 8mers, for example, 95% of the time there will be not be two 8mers having K_d less than $1\mu\text{M}$ in the same cluster. After removing clusters containing this k -mer, we make the same assumption for the k -mer with the next highest median binding intensity in the remaining clusters.

Although this algorithm makes reasonable assumptions for this dataset, if the sequencing library contains longer inserts or the analysis were performed on shorter k -mers, the assumptions would not be reasonable. In this case, an expectation-maximization approach would be a more appropriate solution. The intensity of a cluster would be partitioned among its constituent k -mers in proportion to their binding affinity, and then the k -mers would be assigned an affinity based on the median binding intensity of clusters, in an iterative process. Such an algorithm could be initialized either using the iterative procedure we describe, or simply using the uncorrected median intensities.

Electrophoretic mobility shift assays

The double stranded DNA was reconstituted by mixing equimolar amounts of the two single stranded DNA molecules (Operon) in TEN buffer (10mM Tris.HCl and 1mM EDTA, pH 8.0), heating up at 90°C for 5 minutes and progressive cooling to room temperature. The dsDNA was labeled in a PNK (N.E.B.) reaction with γ - ^{32}P -ATP (Perkin Elmer). mOrange-Gcn4p dilutions were incubated for 45 minutes with labeled dsDNA at a final concentration of 1.4nM in binding buffer (1xPBS, 200 ng/mL competitor dna(Poly (I)·Poly(C), 2mg/mL BSA, 0.05% TWEEN and 10% glycerol) and resolved on a Novex 6% DNA retardation gel (Invitrogen). The gels were read on a Typhoon 9000 scanner (GE Healthcare) and the intensities of the bands measured using the ImageQuant software.

The mOrange-Gcn4p dilutions used (nM): 0, 1, 2.5, 5, 10, 25, 50, 125, 250, 1000.
DNA sequences used (the variable decamer in bold):

GCN4BS1-F	5' -GGGAA TATGACTCATA AGGG
GCN4BS1-R	5' -CCCT TATGAGTCATAT TCCC
GCN4BS2-F	5' -GGGAAC CATGACTCATG AGGG
GCN4BS2-R	5' -CCCT CATGAGTCATG TTC
GCN4BS3-F	5' -GGGAA TATGACTAATA AGGG
GCN4BS3-R	5' -CCCT TATTAGTCATAT TCCC
GCN4BS4-F	5' -GGGAA TATGACTGATA AGGG
GCN4BS4-R	5' -CCCT TATCAGTCATAT TCCC
GCN4BS5-F	5' -GGGAA TATGACACATA AGGG
GCN4BS5-R	5' -CCCT TATGTGTCATAT TCCC

GCN4BS6-F	5' -GGGAATAAGACTCATAAGGG
GCN4BS6-R	5' -CCCTTATGAGTCTTATTCCC
GCN4BS7-F	5' -GGGAATATGACCCATAAGGG
GCN4BS7-R	5' -CCCTTATGGGTCATATTCCC
GCN4BS8-F	5' -GGGAACCTTGACTCAAGAGGG
GCN4BS8-R	5' -CCCTCTTGAGTCAAGTTCCC
GCN4BS9-F	5' -GGGAATATGTCCCATAGGG
GCN4BS9-R	5' -CCCTTATGGGACATATTCCC
GCN4BS10-F	5' -GGGAACCCGGGCGAACAGGG
GCN4BS10-R	5' -CCCTGTTGCGCCGGGTTCCC

EMSA values tended to underestimate the K_d somewhat relative to HiTS-FLIP, (Fig. 1f), possibly because dissociation within the gel reduces the dynamic range of the EMSA assay².

Datasets: Sequences, PBMs, PWMs, microarray data

Yeast promoter sequences were intergenic regions as annotated in the *Saccharomyces* Genome Database (SGD), up to a maximum of 500 nucleotides upstream of each gene. PBM data was downloaded from the supplementary information of reference³. A PWM was taken from reference⁴. Microarray data was downloaded from GEO⁵, ArrayExpress⁶, the Rosetta Inpharmatics web site (<http://www.rii.com/publications/2001/mcb2001Marton.html>,⁷), or the DREAM3 website (with permission of N. Clarke, <http://wiki.c2b2.columbia.edu/dream/index.php/D3c3>). Data for transgenic GCN4 expression⁵ was renormalized relative to time zero and so that the mean fold change at each time point was zero. Data for the amino acid starvation timecourse was renormalized so that the mean fold change at each time point was zero.

Occupancy scores

HiTS-FLIP promoter occupancy predictions were calculated as in⁸ by assuming that the concentration of potential binding sites is so high relative to protein that the protein is essentially always bound to some sequence. Thus, the probability of a potential binding site being occupied by a single molecule of protein is the affinity ($1/K_d$) of the site divided by the sum of the affinities of every sequence in the genome. PBM occupancies were calculated as in³, by summing the PBM binding intensity above median intensity for each 8mer in the sequence having enrichment score ≥ 0.35 . PBM binding intensities and enrichment scores were taken from the supplemental data of³.

When boxplots are used, red lines indicate medians and blue boxes indicate quartiles. Red outliers are points beyond $q_3 + 1.5(q_3 - q_1)$ or $q_1 - 1.5(q_3 - q_1)$, where q_1 and q_3 are first and third quartiles, respectively. Black whiskers extend to the furthest points that are not outliers.

For Figure 3C, genes were ranked and distributed into 40 evenly spaced bins for each gene set. Induction plotted is the mean of the \log_{10} fold-change of the genes⁷ in each bin, averaged over all bins within 5 in either axis for smoothing purposes.

Classification and correlation

Area under the curve (AUC) analysis (Fig. 3A) was performed by ranking each gene based on the predicted occupancy of its promoter and recording systematically for all occupancy score cutoffs the sensitivity and specificity. For each dataset, we defined true positives as genes that were reported as bound (in the case of the ChIP data and Ty5 data) or were induced > 2-fold (amino acid starvation data or transgenic GCN4 data). True negatives were defined as all remaining yeast genes. For the Pearson correlations (Fig. 3B), we used the top quintile of genes ranked by each respective method and correlated the predicted occupancy to the fold-change in microarray signal.

Mismatch analysis

Mismatches were considered in a 9mer context (ATGACTCA) unless otherwise stated. $\Delta\Delta G$ values for mismatches were calculated by comparing the binding affinities ($1/K_d$) of the k -mers with and without the mismatch using the formula $\Delta G = -RT \ln(K_{eq})$, with T set to 296.13 degrees Kelvin (23 degrees Celsius).

Gene ontology analysis

Gene ontology analysis was performed using NCBI's DAVID (<http://david.abcc.ncifcrf.gov/home.jsp>), limiting to level 4 or 5 GO categories. The background was genes with expression level in the top 50% at time zero in the amino acid starvation timecourse data⁹. False discovery rates reported are Benjamini-Hochberg corrected.

Washing and equilibrium

During our experiments we performed a relatively gentle wash step for 2 minutes before imaging Gcn4p bound to the DNA clusters, which should not substantially affect the equilibrium level of bound protein due to its low off-rate¹. However, for proteins with faster dissociation rates, a wash step could considerably perturb the binding equilibrium. To address this potential issue, we sought to take advantage of the GA's illumination system, which is based on total internal reflection fluorescence using evanescent wave excitation¹⁰. To test the feasibility of eliminating the wash step altogether, we performed a proof-of-concept experiment in which we skipped the wash step and imaged the clusters bound by GCN4 at 100nM. Clusters containing the top 7mer motif TGACTCA had a median intensity 13.5-fold higher than that of all the clusters, and, ranking of the top k -mers was well preserved. All 8 of the highest-affinity 7mers were shared between the experiment having a wash step and the experiment without a wash step. This observation suggests that HiTS-FLIP can detect binding at true equilibrium without a wash step at a comparable level of data quality. This property of the method differs from the PBM approach, which requires several wash steps and one dry step before the imaging is performed.

Promoter occupancy calculation

Because PBMs do not measure K_d values, it is not possible to directly apply the same calculation for promoter occupancy that was used for the HiTS-FLIP affinities. In fairness to the authors of Zhu et al. (2009), we used the same estimates for promoter occupancy that the authors used, which are presumably well-suited to their dataset. However, we sought to verify whether our method, based on the model of Stormo & Fields, would be more appropriate for PBM data as well. Under a simple model of binding on PBMs, the intensity measurements might be inversely proportional to their K_d (as assumed in Fordyce et al., Nature Biotech. 28, 970.). After converting PBM intensities to K_d estimates using this approach, we could directly compare occupancies predicted by the Stormo & Fields formalism between PBMs and HiTS-FLIP. Performing this test, the predictive accuracy of PBMs decreased from that reported in figure 3A and 3B. For example, the AUC for predicting bound genes in the Harbison et al. ChIP-Chip data fell from 0.84 to 0.68, and the AUC for predicting genes induced after amino acid starvation (Natarajan et al.) fell from 0.67 to 0.58. These observations may not be surprising, since they apply a model that assumes equilibrium binding to data collected following stringent washes.

Supplementary Tables

Supplementary Tables 1-5. HiTS-FLIP dissociation constants for 8mers through 12mers, respectively. Columns represent k -mer, K_d (nM), and log-standard deviation of K_d . Released as accompanying tab-separated value files.

Supplemental Table 6. Comparison of Gcn4p K_d measurements from literature versus K_d as measured by HiTS-FLIP for 10mer sequences.

Sequence	Literature K_d , nM (citation)	HiTS-FLIP K_d , nM
AP-1 (GATGACTCAT)	90 ± 60 (Hollenbeck & Oakley) ¹¹	12.4 ± 1.50
CRE (ATGACGTCAT)	140 ± 30 (Hollenbeck & Oakley) ¹¹	65.2 ± 6.49
CREHS (GATGACAGCT)	800 ± 200 (Hollenbeck & Oakley) ¹¹	716 ± 50.0
CRE (ATGACGTCAT)	~ 2 (Cranz et al.) ¹	65.2 ± 6.49

Supplementary Table 7. Predicted promoter occupancies using 8mer K_d values or PBM data. Columns represent systematic gene identifier, occupancy predicted by HiTS-FLIP (probability of a binding given a single Gcn4p molecule) and occupancy score calculated using PBM data³. Released as an accompanying tab-separated value file.

Supplementary Table 8:

Enrichment of GO categories in promoter sets. Enrichment analysis was done through NCBI's DAVID webserver, using the GOTERM_BP_4, GOTERM_BP_5, GOTERM_MF_4, GOTERM_MF_5 annotations and a Benjamini-Hochberg multiple-test correction. The FDR for each enrichment is in parentheses.

High-affinity sites only (n=396)	Both high- and lower-affinity sites (n=104)	Lower-affinity sites only (n=396)
Cellular amino acid metabolic process (4.3×10^{-21})	Cellular amino acid metabolic process (1.2×10^{-7})	Monosaccharide metabolic process (0.29)
Cellular amine metabolic process (1.3×10^{-18})	Cellular amine metabolic process (2.7×10^{-7})	Carbohydrate catabolic process (0.50)
Carboxylic acid metabolic process (3.3×10^{-17})	Carboxylic acid metabolic process (5.9×10^{-7})	Nuclease activity (0.50)
Organic acid biosynthetic process (2.3×10^{-15})	Nitrogen compound metabolic process (3.3×10^{-6})	Glucose metabolic process (0.61)
Nitrogen compound metabolic process (4.7×10^{-14})	Organic acid biosynthetic process (5.9×10^{-7})	Aspartic-type peptidase activity (0.75)

Supplementary Figure Legends

Supplementary Figure 1. Binding intensity is independent of position in the sequence. For clusters containing TGASTCA, raw intensity before normalization is plotted against the starting position of the TGASTCA motif in the sequence. Low starting positions are closer to the flow cell; high starting positions are further from the flow cell. Red line indicates median, blue lines indicate quartiles. Whiskers and outliers are as explained in methods.

Supplementary Figure 2. Effects on binding of nucleotides flanking the 7mer consensus. 11mer sequences centered on the canonical 7mer match TGACTCA were divided into three categories, KRTGACTCAYM (strongest), MYTACTCAYM (weakest), and the rest (typical), where K = T or G, R = A or G, Y = T or C, and M = A or C. The K_d values for each group of 11mers are plotted. Red lines indicate median, blue lines indicate quartiles, and whiskers and outliers are as explained in methods.

Supplementary Figure 3. Gcn4p can accommodate variable spacing of half-sites. Normalized intensity is plotted for sequences containing reverse-complement half-sites (solid lines) or tandem half-sites of equivalent sequence and spacing (dashed lines). Orientation of half-sites is shown above and below sequences (blue for forward, red for reverse-complement). Overlapping halfsites (red) show the strongest binding, but only when in reverse-complement orientation. Adjacent but non-overlapping half-sites (green) still exhibited stronger binding in reverse-complement orientation compared to tandem orientation, suggesting cooperative binding as a dimer. In contrast, half-sites with a single nucleotide spacer (blue) were not bound more strongly in reverse-complement orientation, suggesting that it is impossible for the dimer to bind this sequence.

Supplementary Figure 4. EMSA experiments. Ten different dsDNA oligonucleotides (left side) with different affinities for Gcn4p were tested. The experiments were done in duplicate and the gels for both replicates are shown (right side). For all experiments, the following concentrations of mOrange-Gcn4p were used (from left to right, in nM): 0, 1, 2.5, 5, 10, 25, 50, 125, 250, 1000.

Supplementary Figure 5. Individual pairs of mismatches reveal non-independent effects of half-site binding. As in Fig. 2C and 2D, except that blue bars correspond to a 7mer having a T₁ to A mismatch from consensus (A), a T₅ to A mismatch (B), or a C₆ to A mismatch (C). Significance of differences was not assessed.

Supplementary Figure 6. Comparison between HiTS-FLIP K_d measurements and PBM enrichment scores. Each 8mer appears as a point in this plot with its enrichment score reported by³ and the K_d estimated by HiTS-FLIP.

Supplementary Figure 7. HiTS-FLIP identifies SPT15 (TBP) as a target of Gcn4p following amino acid starvation. A) Schematic of TBP promoter with strongest Gcn4p binding site candidate underlined, with mismatches to the consensus 7mer sequence in red. The percentile of the TBP promoter is compared when ranking by HiTS-FLIP predicted occupancy, PBM predicted occupancy, or PWM scores. B) TBP expression timecourse following 3-aminotriazole (3AT) addition, causing amino acid starvation, as measured by replicate microarray experiments⁹.

Supplementary Figure 8. Expression following amino acid starvation is predicted by promoter occupancy. A) All yeast genes are binned by predicted promoter occupancy using HiTS-FLIP, and boxplots indicate induction after amino acid starvation⁷. Red lines indicate median, blue box indicates quartiles, black whiskers indicate non-outlier extremes, and red dots indicate outliers. Predicted occupancy corresponds to probability that the promoter is bound at any one time at a concentration of exactly one molecule of Gcn4p per haploid genome. B) As in (A) except that occupancy is predicted using only lower-affinity k -mers ($1\mu\text{M} > K_d > 400\text{nM}$).

Supplementary Figure 9. No significant difference in strong sites between high-affinity and high- and lower- affinity promoter classes. For genes in the high-affinity only class in figure 3D ($n=396$), high- and lower- class ($n=104$), or all others, the occupancy of each promoter was predicted with a model using only high-affinity 8mers ($K_d < 400\text{nM}$). Red lines are median values, blue lines are quartiles, and whiskers and outliers are as explained in the methods.

Supplementary Figure 10. Lower-affinity Gcn4p binding sites predict induction of genes following amino acid starvation and transgenic Gcn4p induction. Genes were scored with a model using only 8-mers having $K_d < 400\text{nM}$ (high-affinity) or $400\text{nM} < K_d < 1\mu\text{M}$ (lower-affinity) and were partitioned into sets ranking in the top 500 of the high-affinity model but not the lower-affinity model, the lower- but not higher-affinity model, in both models, or in neither. A) The mean log fold change following amino acid starvation⁷ plotted for each set of genes. Error bars represent \pm one standard error. B) The mean log fold change following induction of transgenic Gcn4p⁵ for selected timepoints is plotted. Error bars represent \pm one standard error.

Supplementary Figure 11. Induction of genes with lower-affinity Gcn4p binding sites is GCN4 dependent. As in figure 3D, except that only genes having lower- but not higher-affinity Gcn4p binding sites were compared for induction after amino acid starvation in wild-type cells or GCN4 knockout cells. Error bars represent \pm one standard error. Difference at 30 minutes is significant ($p = 0.027$, paired t-test).

Supplementary References

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ATGACTCA	21.8644484538395	0.129042004955712
ATGAGTCA	28.406657890244	0.161861652847058
GTGACTCA	37.7827915823589	0.194733295221878
GTGAGTCA	45.5360883474567	0.129389630339638
ATTAGTCA	57.777722098695	0.200643099198452
ATGACTAA	64.9373625942055	0.0965733022203616
GAGTCATA	73.4262575681568	0.113302573167841
AGAGTCAT	79.1804061208765	0.600071693072022
CTGACTCA	86.9023516331532	0.110952029992689
GAGTCATC	95.6441382920301	0.122624710808301
GTGACTAA	103.390733344826	0.115888576800859
ATGACTGA	104.678732054573	0.141533298109791
CTGAGTCA	115.796106292894	0.132633013055871
ATGACACA	121.320879611407	0.104750274353206
AAGAGTCA	123.970867438816	0.136367888416328
ATGACGCA	124.176573880999	0.129794972214114
ATTACTCA	125.831308029229	0.11375317624354
AATGACTC	127.11608765136	0.143258734210261
AGGTGACT	128.431854028219	2.12738954152854
TGACTCAA	140.76768106475	0.132803061155984
TAGTCATA	154.890809529787	0.114624325151128
GAGTCACA	161.457585713251	0.115861851866885
ATCAGTCA	166.131457255091	0.115887047325558
ATGACTCC	179.247966585719	0.144570277038886
CAGTCATA	180.010489733759	0.133699678503007
GAGTCACC	183.396061507682	0.101107477074341
ATGAGTAA	192.378154959104	0.140423541980712
ATGACTGC	196.422161517356	0.980649329468519
ATGTGTCA	197.073281441975	0.106546483995354
ATGACTCG	198.588248617304	1.51234406834803
CATGACTC	206.909051012609	0.164073584613787
AAGTCATT	210.104414864765	2.4731591142331
GTGACTGA	212.211554010986	0.130014588807051
GATGACTA	213.763375084661	0.133243441337376
GTGACGCA	222.776752194523	0.130755589911147
ATGACTAG	235.896748557248	0.892582691009629
ATGATTCA	239.42677436425	0.120693337404513
ACAGTCAT	242.808776710635	0.122383242473975
GGAGTCAC	247.819470359761	0.1523145663465
CTGACTAA	254.291849853215	0.120477315260346
AATGACTA	254.933656367432	0.150968764900308
AGTGACTC	264.648724874272	0.180860485941539
GTTAGTCA	273.652346638821	0.295662394081117
GTGACACA	273.942836504841	0.112237282818107
ATGACGTG	276.59997541996	0.116433211830189
AGAGTCAC	279.682018756105	0.0659583909588879
AGTCATAC	280.594792601908	0.124493108133798
CGTGACTC	284.298430050168	0.107693756024814
ATGCGTCA	287.000431756365	0.11471381294074
GTGTCATA	288.498504421965	0.118299428691835
ATGACGTA	299.417020718205	0.144310917706827
AGTCATCG	302.404209558662	0.108702163038728
CAGTCATC	306.918785742984	0.120001379262697
ATGAGTCG	320.118967554173	0.433319305892026

TGACGTCA	320.241153652732	0.127525283681657
TAGTCACA	323.342111390264	0.146820583065609
GACTCATA	332.55143123129	0.188057830707038
ATGACTTC	345.324623960128	1.37065818812377
ATGACTTA	347.84410626119	0.156916371043311
CAGTCACC	349.250377906648	1.21248011809826
GAGTCAGA	350.529355097339	0.124753143944316
ATGACGAA	362.863443840624	0.155778488891739
GGTGACTA	367.720346547914	0.146740624208771
AATGACTG	368.05939935115	0.158015996740095
GTGAGTAA	369.93114217834	0.116486791515502
ATGACTGG	372.552011711787	0.773229197112863
AATAGTCA	378.063060955901	0.0419733423473979
ATGACCCA	381.458378884366	0.116718198966354
AGTCATAA	383.086393392554	0.120320475571984
ATAGTCAT	383.177710468769	0.353119184452578
ATGACTAC	389.943286797305	0.110844258559257
GCGTCATA	391.143737350165	0.0931690074162251
ATGACCAA	393.712187314867	0.110899735560769
GATGACAC	395.584911452418	0.118573822104771
AGACTCAT	396.095601048526	0.529202750684472
ACAGTCAC	403.406584460104	0.12441109548902
ATGAATCA	405.12007891595	0.111005607266771
GTATGACA	408.981263406916	0.0764065943198506
GACTCATC	416.255334351816	0.144252250231611
ATGACAAA	419.034527692401	0.154839899381237
AGTCATCA	424.920158666314	0.122344430014057
TAGAGTCA	427.754133255181	0.129520487320395
AGTCACCC	427.817733993418	1.17735678845206
AGTCATAT	428.21079278445	0.104275035736746
CATGACTA	436.628796609329	0.119316668174801
AATGAGTC	451.685719428009	0.119198801807458
CAGTCACA	456.288240270028	0.181128766073973
GATGACGC	460.170756935851	0.121112204952119
ACACGTCA	476.619132087559	0.0915614512397426
AGTCATAG	482.965969394908	0.108027222576589
AAGACTCA	497.824928275729	0.0752266685641462
CTGACTGA	498.593373009337	0.130276489113362
AGTGACTA	509.311029701731	0.117727627447226
GTAGTCAC	512.895273666152	0.093734383551713
TCGAGTCA	515.699171225436	0.143267899572609
TGACTAAA	523.633024991856	0.0891219275555081
CTATGACA	524.3434794867	0.135101192337958
GTGACGTA	526.359223971239	0.103204070704297
ATGACGGA	527.872523662104	0.168862517314566
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TATGACGA	530.208311137467	0.147256031973467
ATGACATA	534.387802365613	0.109355057228111
AGTCATTC	534.431500957218	0.143045979890745
ATGACAGA	542.912756741897	0.137556001375482
AAAGTCAT	545.15636505904	0.713424746079329
AGTGTCAT	553.075773232047	0.148966949625719
ATGACCGG	555.428624210607	0.137371857092069
CTAGTCAC	561.905391651741	0.129859207690651

GTGATTCA	568.047473805092	0.0832552106917636
AGTCACAC	570.29494815925	0.105299757653161
GAGTCAGC	570.982506510692	0.0779052593639758
AGTCACGG	572.389307256382	0.801005763769608
ACGTCATA	573.361188477406	0.121131342474153
TTAGTCAA	576.644952432428	0.112126918379558
ATGACGCC	579.413355924258	0.910116225385948
AAATGACT	580.180578804361	0.119146896653001
ATGAGTAC	585.986020136333	0.121250964852337
AGTCATCC	589.285971789429	0.129283664684799
TGTCATAA	589.620046859717	0.145370222537261
CGTCATAC	596.502040751607	0.167317705073128
ATTGCTCA	608.111521677397	0.112556279725165
ACGAGTCA	609.385271084293	0.144495578639619
CAGTCATG	611.178895345187	0.0922691551285804
ATTGCTCA	612.867798160481	0.122890301894589
ATAGTCAC	616.282170627576	0.134006236500995
GTGACTTA	626.439618614035	0.0890341577923072
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AGTCATTG	633.771060731198	0.115071053909552
GATGACGA	639.793603717721	0.106221320870081
AGATGACT	642.034958269282	0.112718694021848
GTGTCACA	645.245227382817	0.10907918630053
TATGACAA	647.661842069432	0.192740524206903
ATGTCATA	653.738349466206	0.0223666507093017
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GTGACCAA	657.553933449469	0.114132736493213
AGGAGTCA	657.590023725375	0.105238179095007
GTGTGTCA	657.928720748185	0.118137721639461
AGTCACCG	658.19649727451	0.132076110719758
CGACTCAC	662.290516861376	0.155032296292913
CGATGACA	670.654080162047	0.0885796022346006
TATGACCA	671.520892785536	0.109448369456235
GACTCACA	677.794408812415	0.113177320944834
CTGACGCA	680.441951776902	0.0780767459686693
GTCAGTCA	682.670377261168	0.255347397572946
GCAATCAC	686.14344009205	0.0919860352828554
AGTCACAT	690.099191685878	0.116255057807548
CACGTCAC	699.824138301482	0.146842366018229
AGTCATGC	718.176634281308	0.122465741205003
TGATGACA	720.225831587322	0.101938267868007
AGTCACAG	721.994826387612	0.112851738623559
AATGACGA	724.506706790127	0.167031909152733
ATATGACA	726.59779533229	0.105525406296763
AGTGACTG	727.560466866407	0.0838274463059529
GTGACCCA	733.456550768156	0.0679737633403197
GACTCACC	737.963051658313	0.0226912458741671
AGTCATTA	739.726566314915	0.107593807118618
AGTCACCA	752.84879746971	0.111797823410397
CCAGTCAC	760.73617028738	0.104194927708504
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TAGTCAGA	773.785714104038	0.110192133877535
AACAGTCA	774.348035179551	0.0985773340045095

ATGAGCAA	774.770639128742	0.105672728927496
ATTACTAA	777.003105561257	0.094388533428731
GTGCGTCA	781.583788660351	0.152465029381033
GTGACAAA	783.956280470834	0.163129854484022
AATGACGT	785.3139379063	0.135988946269992
AGTGTCAC	788.623309045876	0.0878933563427238
GGATGACA	790.877554391685	0.0801047223263876
AGTCATGA	797.048393676577	0.0974558376177513
GGTGACAC	797.549753321279	0.102009760670791
GTGACGAA	798.750453951227	0.0818950666673505
TACTCATA	802.606863356859	0.0984835224717441
GTTACTCA	816.653978577874	0.0991174674460887
ATGACACG	818.367267675433	0.0979525027227709
CGTCATAG	825.11185514715	0.109522381459354
ATGTCATC	828.896939524903	0.0733990905593687
AGTATGAC	829.625316365166	0.22287563269735
GTGTGACA	830.465283611617	0.0796304576176792
TGACTGAA	833.309803453558	0.0903347449656682
ATACTCAT	835.532900800385	0.127789114152535
ATCCGTCA	836.432700458011	0.0985670167762073
CTGACACA	842.605419664912	0.0762709076840584
AGATGACA	848.203019590072	0.0876959577567928
ACATGACT	855.902435677757	0.0977749965774764
GAATGACA	858.586662439217	0.115662316036696
GAGTCAAC	864.663197373339	0.115495504212895
ATGAGCCA	868.774643089965	0.100604481405433
CTGACTCC	878.073428895943	0.10758508454899
AGACTAAT	885.627935967865	0.0870705431281352
CGATGACG	888.30077168168	0.131886907637179
ATCTGTCA	893.002533074358	0.114920952287593
CGTCATAA	893.736411368756	0.107551437830961
AGTCACTG	898.618377232263	0.0826798596067988
AGACTCAC	904.239742189171	0.0742808097022835
AATGACAA	907.787753973889	0.0920351528808636
ATGACACC	910.778152024733	0.0905541864490247
GTGAATCA	913.605506465445	0.0907629518790831
CGCGTCAC	914.670270584355	0.11703197253184
GCGTCACC	916.059128134818	0.0411077643358621
ACGTGACT	917.20687531501	0.074335141770258
GTGACATA	917.365722517471	0.0806062509731729
ATTACGCA	917.568662750245	0.0916039042531537
ATTAGTCG	924.386736226508	0.0778665615155749
GATGACCA	926.770091665121	0.0819827891713414
GCGTCACA	929.458493080778	0.0336026399887249
ATATGACG	930.651665811334	0.072096747245294
AGCGTCAT	933.572835277489	0.0722588466171575
ATTGACTC	933.959093880438	0.0661263029058407
CAGTCAGA	934.996591615929	0.0744736864119784
ATGACCGA	935.382137733252	0.0801499555152789
AAATGACA	947.231509425629	0.069232042148487
ACTGACTC	949.013515691162	0.0588155531255323
AATGAGTA	952.3147095385	0.0532287718131597
ATACGTCA	953.928190229654	0.0516842772877449
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ATGACTCAT	14.8203225677069	0.189593951217938
GTGACTCAT	16.6882023787683	0.153030846207832
ATGACTCAC	17.5903243020817	0.187000895142395
TATGACTCA	19.030536350374	0.211461601654983
GTGACTCAC	22.9677440999336	0.192986986466138
ATGACTAAT	26.8935097343643	0.151677666235491
TATGAGTCA	28.2968102715578	0.265866058933075
TGAGTCATC	28.6278279364238	0.199350971088554
AATGAGTCA	28.7980578110843	0.230360069004761
GATGAGTCA	31.1938121244659	0.188243214184212
TGTGACTCA	34.0408981787831	0.227202654771957
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AATGACTCA	34.5539433801296	0.130328283320715
CTGAGTCAT	35.586862556227	0.171990372780408
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TGACTCACA	41.1206148033116	0.233063530351033
TGAGTCACC	41.4655929175951	0.316326958887223
ATGACTCAA	43.2905378580451	0.242258560077251
TCTGACTCA	45.9723470591627	0.243302033322098
AGTGACTCA	47.1440640569809	0.23038697951061
GGTGAGTCA	47.5185178138377	0.154435560887765
CATGAGTCA	48.420152613998	0.189448490064463
GTGAGTCAG	48.6945051615184	0.242872932086983
AAGAGTCAC	50.6330678255885	0.210229420906458
GTGACTCAA	50.8046604256254	0.186921939468359
TTAGTCATA	51.5225598080943	0.294331857764221
ATGACTGAT	53.5409044037736	0.211914669798225
AGTGAGTCA	53.5508086704383	0.221589819830552
ATGACTAAC	54.7928672952632	0.164793208434919
CGTGACTCA	56.3988152830774	0.0330805128500843
ATGACACAT	56.8910682606447	0.159710683134288
ATTACTCAT	57.9221717808574	0.199858758954246
ATGACGCAT	65.4520508344371	0.200192211272149
ATGACTAAG	66.6399405086025	1.25920421571349
GTTAGTCAC	67.8474409691636	0.16905351839925
CGTGAGTCA	67.9028533908539	0.154706476409532
TCTGAGTCA	69.353086938736	0.215237298579984
TATTAGTCA	69.5119018873955	0.163722602672956
TAGAGTCAT	69.8592203628686	0.19425941716111
GATGACTAA	71.8783838438064	0.165818736258566
AATAGTCAT	74.4422190025223	0.162166672267667
GATTAGTCA	75.4255084773344	0.143482854125636
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GGAGTCATA	78.0221079144922	0.164593983698892
GTGACTGAT	78.9931842597134	0.155612331572926
AATGACTAA	82.5048688832322	0.173209831679712
GAGTCATAC	83.9728617192716	0.223123274252186
CGAGTCATA	85.2432319509395	0.153146624202953
ATTACTCAC	88.0645058786125	0.181856094518667
ATGTGTCAC	88.6779560486446	0.154050726401484
ATTAGTCAG	90.1414235272865	0.408596727581917
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TATGACACA	91.2429013782746	0.149555598902394

GAGTCATCG	92.0576442010792	0.241541436600395
TATGACGCA	93.0515400824498	0.231640643061297
ATGAATCAT	93.8464888023083	0.219099140903037
ATGAGTCAG	94.2688939021489	1.59454445780244
GAGTCATAA	95.0129939980734	0.239196791958888
ATGACTAAA	95.5733310021772	0.286526357547599
GAGTCATAG	97.6095762199619	0.227405988671515
TGACTCAAT	98.4025041511822	0.201054432186459
GCTGACTCA	99.0608105326037	0.317780849721743
GTGACGCAT	103.500738777769	0.231396738569256
GGTGACTAA	104.59814753116	0.192338848884736
CATGACTAA	105.012219488425	0.161521154123144
GTCAGTCAT	105.471784215433	0.206385742282872
ACTGACTCA	105.565702609681	0.250292002875201
TCGAGTCAT	105.929889169483	0.227556319048627
GATGACTCC	106.786743586915	0.175911484927281
GCTGAGTCA	109.003219659746	0.285809287999991
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ATGACTCGT	112.534548472904	0.289024431724832
AAGACTCAT	112.711049742924	0.194246802442903
TAGAGTCAC	114.719029573012	0.189398735666546
AAGAGTCAG	115.142633103364	0.187460580427657
GAGTCATAT	116.073283595932	0.302412749028913
TGACTCAAC	116.126527184687	0.200418618683105
AACAGTCAT	118.728194937128	0.176371543158322
ACTGAGTCA	119.68358633632	0.179853639976064
ATGACTCCT	122.188659900572	0.213654509296884
ATGACTGAA	122.283216948293	0.342763082186382
ATGAGTAA	125.375871237265	0.226855292525409
TCTGACTAA	125.990934462922	0.195489430676062
ATGATTCAC	130.337604343619	0.189504495748952
AATAGTCAC	130.624853459496	0.191814230937886
GTGTGTCAT	131.414703504856	0.202624513020297
GTGACTAAA	132.926355987879	0.242156248076214
ACACGTCAT	133.825230848042	0.1939142268945
GTCAGTCAC	136.305021688214	0.217974632245506
GTGATTCAT	137.299835228509	0.180446821912837
AGTGACTAA	140.253278332637	0.208755049167776
CTGACTCAA	140.560082660239	0.290489681907375
AGAGTCATC	140.935018193693	0.223840439012512
AATGACTCC	142.509241996411	0.140984293184047
TATGACTAC	142.879869344521	0.2144465648177
GAGTCACAC	142.905480054381	0.158983127964653
ACAGTCATA	145.911320750534	0.230136383648486
TCAGTCATC	147.031286478016	0.229252159935904
GATGACGCA	147.443380080141	0.200266588076903
CTGACTCAG	147.711474349062	0.254969124280911
TGACTCAAA	147.72144432632	0.22471242287938
GTGACTAAG	148.642437752734	0.182541005794807
TAGTCATAC	149.378266947827	0.175038363584464
AGGAGTCAC	150.167565739557	0.211120276030041
ATGACGTCA	151.638379756532	0.171181417723175
TCGAGTCAC	154.079709570871	0.209008579915041
ATGACGTAT	155.590054467085	0.235665826794624

GAGTCATCT	156.023105670271	0.263065188575184
GAGTCATCA	156.301065968352	0.803180325555759
AATGACGCA	156.36730639564	0.2890485674306
CCTGAGTCA	157.126561447133	0.196201642190309
TATGAGTAA	158.235887214434	0.19603651935723
ATGACTTAT	159.686479122562	0.22367200577405
ATGACGCAC	159.822526916434	0.242733635455158
ACGAGTCAC	159.855309686048	0.213307136929823
GAGTCATTC	160.238342635426	0.217745334714638
ATGACCCAT	161.770707204308	0.217590692146838
GATGACACA	162.065723793565	0.218295515517961
ATGACGAAT	163.97265810164	0.207885865788931
AATCAGTCA	164.652240933722	0.354492480769322
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ATGACCAAT	166.236378155551	0.221991452386487
ATGACGTAA	167.323171338669	0.202998430453262
ATGAGTCAA	168.686253962169	1.16984565167165
CTGACTGAT	171.380576607585	0.1866691245198
TCAGTCACA	171.486637614844	0.22052545456852
ATTAGTCAA	173.706666873703	0.144764197841357
AAATGACTC	175.518431574727	0.176174776196997
AATGACTCG	178.18549018701	0.0987645684949505
GAGTCATCC	178.247090604899	0.196512515029853
GTGTGTCAC	178.621583471078	0.177785255505404
ATGAGTCGT	181.672122013934	0.194578009313151
AATGACTGA	182.01343206942	0.218753644585606
GGAGTCACC	182.042557027875	0.213019352825079
GATGAGTAA	183.032439889884	0.201613431547537
GTGACTGAA	183.378933215657	0.245415444027666
AAGACTCAC	184.687871219344	0.203418880005522
GAGTCATTG	185.255305704871	0.124496981183335
GGAGTCACA	186.617236652324	0.297575795074651
CAGTCATCG	187.044466458421	0.878261816618941
GATGACTAC	187.997386647908	0.23637097475496
TATGACTAG	189.957448080644	0.20747700159105
ATGACAAAT	191.347490809929	0.226453523960973
TAGTCATCG	191.847117330657	0.244183223148761
TATTACTCA	192.993855182231	0.176323507122795
TAGTCATAG	193.552037469888	0.253506953638829
TAGTCATAA	194.348628125941	0.265191200118502
ATGAGTCGA	196.010068806586	0.219280311078909
CAGTCATAC	196.021990075527	0.250221736350101
AATGACACA	196.131133341577	0.203984376630051
CCATGACTC	197.895946296416	0.762090603280867
AAGAGTCAA	198.939151177208	0.20212309153541
ATGACGTGG	199.401868206903	0.215239072785213
TAATGACTC	202.758348195683	0.230694424190732
CTGACTAAC	204.144676639614	0.212755485547149
ATGACTCCA	204.398716592555	0.248749196924785
ATGTGTCAG	204.550130477051	0.197918115212844
GTGACGCAC	204.675639327694	0.208672642497501
ATGACTCCC	205.290582472626	0.238635987118664
ACAGTCATC	205.664107614322	0.204327390775437
GTGATTCAC	207.29664019944	0.183182140258561

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AAGTGTCAT	208.59996631868	0.210970959513103
ATGACTGGT	213.764318515562	0.175889986828666
CAGAGTCAT	215.004474916791	0.299695050151642
AATGAGTAA	215.399251642048	0.234266854667835
TGATGACTA	219.351459010176	0.164947649320215
CAGTCATAG	222.637937577772	0.341511706255557
ATGACTGCA	222.741234443607	0.213186736327314
AAGTGACTC	222.825500621383	0.984361764483446
AACAGTCAC	223.568720977711	0.232394187630475
GATTACTCA	224.42557480242	0.264308504845078
CGAGTCACA	225.340660158579	0.158799762268388
GTTACTCAC	229.200486082601	0.160670982056392
GAGTCACAA	230.166415388605	0.198539536422123
GAGTCACAG	230.527127736467	0.228826682462938
TGTGACGCA	230.605158976152	0.220291862166815
GCATGACTC	231.262512628182	0.198208865016759
GAGTCACAT	231.861819789138	0.286341049549651
GAGTCACCG	232.156570623737	0.105424171656424
ATGAGCAAT	232.251553051384	0.215476259659683
ATTACTAAT	232.532140899812	0.225902328515794
GATGACTAG	236.580422969305	0.224817445396736
GAGTCACCA	238.475766865125	0.101008759973454
AATGTGTCA	239.961451097101	0.256036284389588
AGAGTCACC	240.110318829509	0.25011311701856
GAATGACTA	243.918180635683	0.219493455790113
TGTTAGTCA	244.380114627677	0.231470425954821
GGATGACTA	245.901243617708	0.228524126283594
ACACGTCAC	246.727942706671	0.180682744981484
AAATGACTA	248.882163550253	0.192219139377746
ATGACATAT	248.966048645552	0.219113739594398
GTGACGTAT	250.707305417759	0.202107191989007
TGTGTCACA	250.896899552203	0.170926754008462
ATGACAGAT	252.050699461718	0.214546272414916
TATGACTTA	252.679613572452	0.202831577888241
GTGACGCAA	253.733500047687	0.287444906451931
TTGACTCAA	256.651416411603	0.20592168169178
ATGACACAA	258.088977950785	0.148029894847913
ACATGACTC	258.909647362698	0.39698569046001
GATCAGTCA	258.957245323303	0.17092444978113
TATGACGTA	259.771718837518	0.19746446557409
TAGTCACAC	260.316844115137	0.198620352853926
AATGACTAC	260.517990572096	0.134167895809093
GGTGACTGA	260.787740873637	0.171760534861443
GAGTCATGA	262.24459473091	0.260045795533825
ATGACTGCT	263.053685589023	0.234453743039636
GGTGACACA	263.091370431663	0.183774372693453
GACTCATAC	263.934047994012	0.221848218815086
TGACTAAAT	264.18935669155	0.223706094137571
TCTGACTGA	267.365140349328	0.181518695657934
TAGACTCAT	267.77470887178	0.245567171203025
GGTTAGTCA	268.052645729335	0.180001720041011
ACAGTCATT	268.905332230433	0.226841154132944
AATTACTCA	269.929214862435	0.206651487113864

GTGACCAAT	270.173681368541	0.249884038164824
AATGACTAG	270.731077446876	0.177216955651738
TATGCGTCA	274.642061471406	0.147895226182332
TATGTGTCA	276.908745727765	0.204487842861562
ATGACTTCC	277.325604078887	1.85007097389713
ATGACGCAG	277.462056570898	0.32700968919735
TATAGTCAC	278.433140589014	0.210579918806133
AGTCATACA	278.871951228284	0.223930728620163
AGTGACTCC	279.709793514546	0.167046614409181
TGGAGTCAC	280.037500928912	0.297398575780141
AGTCATCGT	280.09651725224	0.207114495970256
TAGAGTCAG	280.441748133151	0.266214760505191
CAGTCATAA	283.309772518266	0.38081572360165
ATGCGTCAG	284.100856460828	0.510265047504826
AGTCATAAT	284.131707221471	0.255349957695451
TGTAGTCAC	284.333140931643	0.15867693091141
GTGACTTAT	284.873087102685	0.140603952450007
AGTATGACT	286.546706357841	0.161476063745441
GTGTCATAC	287.829867933124	0.148166780263139
TATGACGAA	288.997112512338	0.230078738322776
AGTCATCGG	289.624509462044	0.134190022839304
AATGCGTCA	290.266607469708	0.195758145550039
GTGACGTAA	291.369708523377	0.2095037717071
TATGACCAA	292.111133837436	0.206761892535418
TAATAGTCA	292.843405156783	0.232613003659992
ATTGTCAC	293.563752899414	0.216350129272488
ATAGTCATA	295.272398559322	0.0692857862412148
GATGCGTCA	297.021987578408	0.0939206289202886
GAGTCACCT	297.165797195097	0.248310352258904
TATGACCCA	298.417726706153	0.178932500762474
CGCGTCATA	299.461100171658	0.18125102268617
GGTGACGCA	299.565353701491	0.187557559210036
GGGAGTCAC	301.563032575207	0.259316999598171
CCAGTCATA	301.939603814685	0.133069601493918
GATGTGTCA	302.761355046127	0.189051043013679
TATGATTCA	303.377644620573	0.167250900740384
ATCCGTCAT	305.783455758393	0.151969838828055
CGACTCATA	307.030526089184	0.239784390957678
GTGACCCAT	307.110763501226	0.182700946682208
AGTTAGTCA	307.544703884385	0.212916084231298
TGACGTCAC	308.113486425181	0.192426025848688
CTATGACAC	308.623926770892	0.175000305280767
ATGACGCAA	312.140369685841	0.664832452514545
AGTCATAGC	313.933330165473	0.229425581373028
ATGAGTACA	314.155225775925	0.187705971667814
ATGAGCCAT	316.229762985347	0.19364751345474
TAAAGTCAT	316.635437034316	1.12139263951849
TAGTGACTC	316.858788152733	0.195633234988585
ACGTGACTC	317.679916105713	0.18171588270926
GATGACGTA	317.874514462212	0.21810191442228
AATGAGTCG	318.122197594007	0.167633822493801
ATGACTAGT	318.127600369524	0.0957339783407615
AGTCATACC	318.336663702724	0.209097704673556
CATGACACA	319.738655511281	0.227516287012026

CAGAGTCAC	320.142930033187	0.264572968515884
CAGTGACTC	321.040634827495	0.194096353883451
AGTCATCGA	322.197197074241	0.219812672253468
GATGACTAT	322.314083563799	0.109986846604835
TATGACAAA	324.445577920096	0.165991312970709
CGGAGTCAC	324.677953148474	0.110698393118019
AGTCATAAC	325.27515428655	0.123496555148818
GTGACACAA	326.162320277136	0.195068447116363
GAGTCACCC	327.076559367856	0.0325802836648871
AGTCATACG	328.273501481414	0.101424494136105
ATGACTCGC	330.288044698209	0.664578587119734
ACAGTCACA	333.706964429035	0.207116777658476
GCGTCATAC	334.89935381038	0.149728798467809
GAGTCAGAG	335.16167778372	0.207271606225039
AGTGACTGA	335.23966820112	0.152606524012208
ATGACTACT	336.551340596328	0.172687168705864
AGAGTCACT	338.82540233141	0.169636895287778
GTGACAAAT	338.977088819464	0.186522778493255
GAGTGACTC	339.492143206822	0.19806543361137
TGTGAGTAA	339.72895207332	0.166028293884315
GAGTCAGAC	339.763085514288	0.113331005744043
AGTCACATA	341.232208050042	0.797873609595566
ATGACACGT	341.298992101805	0.219387176393203
AGTCATAGT	341.706851265637	0.160789428836376
TAGTCATTG	342.952203058717	0.0306245099514875
GGTGAGTAA	343.182957577736	0.180863835944666
GCTGACTAA	344.707261102641	0.236257924002871
ATGACGCGT	345.391646502824	0.168774470910659
TAGTCACCG	345.475651151266	0.212195477618198
GTGTCATAA	345.715106513225	0.141210852101564
TGACTGAAT	346.932006985585	0.167750715776321
CAGTCATCC	350.682932459722	0.225317052986715
CCACGTCAC	352.097018611444	0.179553191620574
AGTGACGCA	352.683613201452	0.193331775135572
AGCGTCATA	352.815212087911	0.144883463665629
TATGACGTG	353.506415571337	0.10848856683655
CACAGTCAT	354.010568759614	0.148268490399207
TAGTCACCA	355.553156899261	0.223970308085836
AGTGCATA	356.833714620903	0.262158913348977
TATGACATA	357.456507711404	0.190048723768071
AGTCATATT	357.866517304667	0.185692175042374
GAGAGTCAT	358.641114719546	0.619281500721657
GATGACTTA	359.717617142483	0.226734328111044
CGACTCATC	359.911323682793	0.182501530655441
AAGTGTCAC	361.344296324102	0.168207548696061
GTAGTCACA	361.797921353701	0.236025828472362
TATCAGTCA	364.581176717215	0.212323651477373
AATAGTCAG	365.010122749478	0.153518549336703
GTGACTGAG	366.427583527473	0.0855386574078568
GATGATTCA	367.210073550974	0.184403291047402
TAGTCACAT	367.245327534323	0.197301062019125
AGTATGACA	367.639649804622	0.121362476509024
GCGTGACTC	369.153634376897	0.240813848913945
TCGTGACTC	369.75543921633	0.131604612604765

GAATGAGTC	370.862807205763	0.188566448730222
TATGACGGA	371.44005434271	0.189530648984761
TGCAGTCAC	372.253599082843	0.189368893132488
TCTGACGCA	373.216357842925	0.17805653979024
AGTCATAGG	373.754238200693	0.157932785571269
AAGGGTCAT	373.90624289053	0.1982910720237
TATGACAGA	376.53182761472	0.247408374062543
GAATGACTG	376.888903998901	0.187456924413598
GTAGTCACC	379.186223450984	0.174067015452904
AAGACTAAT	379.277626621091	0.192677667820652
CATAGTCAT	380.413555609184	0.361442142655059
CGATGACAC	381.106187323293	0.338962765318919
TACAGTCAT	382.417675118575	0.129801079538772
GGTGCATA	382.60973911525	0.15303874089155
AATGACGTA	382.646075678815	0.205311744306067
CTAGTCACC	384.68130994441	0.211235795528645
GATGACGAA	385.339783776992	0.216862381007102
AGTCATCAT	386.494702144638	0.121803880747993
TCTGACACA	390.037672900547	0.158320930400247
GATGACTGG	390.630299719429	0.18544769492295
ATTGCTCAC	392.485525796362	0.214825550589743
ATGAGTAAG	393.556195913489	0.187517334749906
ACCAATCAC	393.766140553224	0.204256037273296
CTAGTCACA	395.905899690218	0.194660496400083
ACGACTCAC	396.218169299556	0.16893856133537
ACTGACTAA	396.341082251575	0.174129669325739
CAGTCATCA	396.975061016524	0.249883657427682
CGTGACTCG	398.156610442362	0.219553760541329
ATGACTGAG	398.291796291825	0.498344282962041
GACTCATCG	398.573553359466	0.195627154824366
GGAGTCAGA	398.932563681107	0.22390330126283
CAGTCATCT	401.934291748237	0.153720823426999
AGTGAGTAA	403.46009918659	0.188425385444522
ACAGTCACC	403.510707942204	0.188298234877449
CAGTCACAC	404.15052111064	0.174643755783859
GTCGAGTCA	405.935044618322	0.117795469377096
AGTGACACA	406.123774276753	0.143105562332985
TAGTCATGC	408.041029935679	0.206402558376963
AGTCATCAG	409.722593198693	0.270397600651353
GATGACACC	410.374474782253	0.149827742944341
AGTCATATC	410.791679958971	0.209481974054958
GACTCATCA	411.943567937574	0.140798248246458
AAATGACTG	413.44601143667	0.172967673003485
TATGAATCA	414.480613212088	0.152055558595075
ATGACTTAA	415.703143084012	0.220976057007715
TAGTCATTA	416.140805629005	0.276802470511833
AAATGAGTC	418.916782863882	0.115429583583692
GTGACGCAG	420.149423588682	0.260640186956772
TCGACTCAC	422.116242524216	0.201822586936736
GGGTGACTA	422.656810392444	0.262923882565644
AATGACTGG	423.066224239059	0.173705670492792
AGTCATAAA	424.311004143471	0.19157178432233
GGTGACTAT	424.817362623279	0.14306533116592
GATGACAAA	425.568385274453	0.181002455694962

GATGACCAA	425.697834009654	0.18433497362656
AGCAGTCAC	425.73595877361	0.219161093203471
GTATGACGA	425.907224165995	0.158740102602641
GGACTCATA	427.651609036817	0.122553066022435
TAAGACTCA	429.136817819563	0.133771713894339
CGTGACACA	429.575336516346	0.273140783382794
ATGACTCCG	429.811351535273	0.774642219266845
AGTAGTCAC	430.019265539322	0.18432252492016
GACTCATCC	430.580420805461	0.165210529081499
GTGACATAT	431.741519202843	0.139549267958607
ATGAATCAG	431.780216638777	0.223468324623985
GATGACGCG	433.111057295351	0.199301129144545
AAGTCATAA	433.953934531036	0.126212592824767
AGTGTTCATC	434.113259287502	0.165834392607933
CGAGTCAGA	435.336167213653	0.417461193475014
ATGACTAGA	437.210400045467	0.188098508097357
AGTCATCAA	438.103944711867	0.161590399200198
ATATGACAC	439.500163913962	0.216956453350736
CTGACTGAC	442.875096679683	0.218859787624149
CATGAGTAA	444.115182509435	0.178374726824018
ACTAGTCAC	444.507767480156	0.149126051717762
ACAGTCATG	445.151083552049	0.0871408067959675
TAGTCACAA	447.355761298548	0.186629210787698
GACTCATAG	447.756527732069	0.26930283089437
TGATGACAC	448.678236352923	0.218359479435614
GATGACCCA	449.815114931643	0.180313623049362
ATGACCGAT	451.83750538121	0.198807997849242
AGTGACTCG	452.195456272318	0.501564167934222
ATCTGTCAC	453.044377299984	0.16464563253766
TACAGTCAC	454.256505666097	0.18130661309577
AGTCATCGC	455.509598750848	0.0981447680849391
ATTACTCAG	456.810172236836	0.138808959299086
AGTCATGAC	458.26426603334	0.187295396960134
ATGACATAA	458.343341772721	0.152013757396158
AAGTCACTG	458.906152232193	1.51521891723791
AGTCATCAC	461.456300566797	0.150619856656116
GATGACGCT	462.534679747309	0.152205430847954
GATGACGTG	462.875863033764	0.171267561897026
AGTCATATA	463.122718937303	0.0768041684296487
AAAATGACT	463.921076669767	0.21341050058161
ACGAGTCAG	465.06348777282	0.149951710893653
GAGTGACTA	465.328419314461	0.200782097272331
TTAGAGTCA	466.069312603169	0.222288910452064
ATAGAGTCA	466.283186273809	0.200578885747624
AATACTCAT	466.763825066295	0.190477200875667
AGTCATTCA	466.848407689566	0.24111044123703
AGTCATTGG	468.493820873668	0.906400009246318
ATCGAGTCA	470.717552894627	0.21104726928584
AATGATTCA	471.750255515117	0.139573493587285
GAGGAGTCA	472.420479443548	0.177500071051032
GTAGAGTCA	472.668891557703	0.141228037252027
ACGTCATAC	475.23585789966	0.14396053664674
GAGTCACGG	475.668298793999	0.237882695105456
GGACTCATC	478.196117817012	0.131976873861753

GACACGTCA	478.626169038998	0.179878409884512
AATGACGAA	482.6354344327	0.211729679713988
GACTCATAA	484.393947254032	0.171227915489646
ATTACGTCA	485.26601776586	0.229500443759327
CTATGACAA	486.202329692641	0.212556430264908
TATGACGAT	486.648973618362	0.235442371652513
ATCCGTCAC	488.825157228026	0.195920143626185
GAGTCAGAA	494.227182570963	0.285577228688161
GAATGACAC	495.140234266401	0.14916127279011
AAGCGTCAT	495.191957328413	0.136006807237303
CATGTCATA	495.314941911596	0.199252233706224
GAATGACGC	498.337112697898	0.247380841807939
TTAGTCAAC	498.953260613474	0.221089170964582
CACAGTCAC	500.550264494002	0.202534016481206
GCGTCATAG	501.217065095163	0.20520683845206
GATGACAGA	502.211026696863	0.208683161524788
AGTCATTCT	503.052617884626	0.153957252759169
GTATGACAA	504.387576316244	0.139698566739103
GATGACATA	505.798911932784	0.165962407893481
TATGACAAC	506.497074515007	0.149769748101182
AGTCATATG	507.437429598369	0.394310576567327
GACTCATAT	508.169406309248	0.150647136414139
AGACTCATC	508.295775119535	0.278251091838742
ACGTCATAA	508.984117336955	0.25732065513671
ATGAGTCGC	509.679315638593	0.553828247097079
AGTCATCCG	509.704489464223	0.164969511188842
AAGTCATAT	510.590006408511	0.0896896204701007
GGATGACAC	511.083492929198	0.103246073913564
AACGTCATA	512.217737554939	0.159294233004383
TGTCATAAT	512.669854121721	0.189962551414245
ATGTGTAAT	513.708134337108	0.196833105675915
ACGTCATAG	513.838685590296	0.567697308818634
ATGACTTAG	514.653800425584	0.952261291708741
AGTCATCCA	516.016386134626	0.235401454837548
AATGACGCG	516.099804067138	0.370377910569027
TGTGACTTA	517.702463748713	0.126937471057949
TGACTAAAC	518.011045937457	0.295914281887977
CAATGAGTC	519.079295094998	0.132107726474574
TAGACTCAC	519.155961976572	0.146861586744432
AGTCATTGT	520.719660199645	0.177278367268952
TCTAGTCAC	521.82808190349	0.184204162840265
TAGTGTCAT	522.257431996711	0.141075747785413
ATCAGTCAA	523.564801162459	0.179495929026648
TAGTCACAG	525.57525154959	0.169241764679602
CCTGACTAA	527.23363215628	0.323451491495932
ATCACTCAT	531.07848214708	0.158511617548254
CATTACTCA	531.724602313308	0.163988844885264
AGTCATTCT	538.534168830795	0.2145098655094
TTAGTCAAT	539.568774460703	0.150514358132586
AGTCATGCA	540.456781274372	0.151949237637878
CTATGACAG	540.648335751989	0.165266481898531
TGTGACGTA	542.707389017473	0.133003030936304
ATGACTACG	544.055075922038	0.387385123138735
GACTCATCT	544.638583843383	0.100200069013664

ACTATGACA	545.142259180156	0.23621938554697
TCGTCATAG	548.056444250354	0.103662726254956
AGTCATCCT	549.121244131573	0.202273006225209
TGTATGACA	550.045965951117	0.160164311623729
CGATGACGT	550.780127983502	0.225401276086645
AGTCACACA	552.211043459055	0.241599112310933
ATTACGCAT	552.508940465487	0.209461125662107
ATGACTGGA	552.947728694815	0.425101890738123
CGATGACGA	553.071410526399	0.238495501199636
AATGACGTG	553.315647006821	0.280415388015714
GCGTCATAA	553.426195593809	0.157036968723663
ATGACGGAA	553.750836567544	0.336767189027725
AAACAGTCA	553.899167180116	0.278306092626445
ATGACATCA	554.068023610832	0.122579106974545
GAGTCAGCG	555.391228956654	0.251404788713495
CGATGACGC	556.660565493181	0.291079832491294
AATGACTTA	556.774857339792	0.342877084581597
AAATGACAC	558.466497428942	0.197642480557915
ATGACCCAC	559.884860640152	0.173360429140547
GTGTGACAC	560.121686034995	0.146615193539828
AGTATGACG	561.127441211264	0.183685958567077
AATGACAAA	561.90251672144	0.206565633593715
ATGACTAGG	562.07944164929	0.423952538004334
ATGACGTAC	562.190986033635	0.195721626705908
AATGACACC	563.404081267962	0.172598581147339
CAGTCATAT	565.707249087475	0.331557296171945
ATTACGTAA	566.050541557008	0.140258551536437
GATGACGAT	566.099376389108	0.157507753447689
CAGTCACCG	566.82777298908	0.156948584971132
GATGACAAC	568.1753816522	0.148404183363888
TAGGAGTCA	568.303963994773	0.182711477806626
TATGAGTAC	568.651534619779	0.235832682466846
CATAGTCAC	569.40355747834	0.185684745094488
GGTGACGTA	570.946731569743	0.179545893741514
TGTGACCAA	571.44520777658	0.123607537732942
AGTCACACT	574.751936316123	0.199902030783766
TATGACAAT	577.134736607751	0.0487316035488936
GTGAGTAAG	577.777034620102	0.132263031258304
AAGAGTAAT	578.054303090527	0.174073738231706
GGTATGACA	578.672092660401	0.173004805916091
AGTCATTAT	578.994594163177	0.208123470777479
ATGACGAAA	579.597702555232	0.301114061617453
ACAGTCACT	579.773296625317	0.133178538119049
AGTCAGTCA	580.092495703574	0.183003610820219
CAGATGACT	580.77616761214	0.195456279627416
TATGAGCAA	581.692220492238	0.129845590740762
TGTGCGTCA	583.98641104606	0.09537869446289
TATGACGAG	586.374870225825	0.193017463236713
TGACTGAAC	587.183030052241	0.21296665634201
ACACGTCAG	587.543759409923	0.203616882646855
AGTCACACG	590.086762101836	0.157484572545045
ATGGCTCAC	590.376135484536	0.145264744283144
GGTGATTCA	590.992936532831	0.131050267169346
AGTCACCGA	591.035734251803	0.125880733311755

GGTGACTTA	591.081754045332	0.175100044976496
CAGTCACAG	591.115090331371	0.154682468689674
AAGACTCAG	592.248597412088	0.155351315468289
AGTCATTGA	593.117203526614	0.138138662299338
AATGAGTCT	595.252740177286	0.0736647208211051
GCTGACTCC	597.209193014479	0.0732437084995239
TACGAGTCA	597.290487435772	0.190901634344142
TATGACCAC	597.525989304092	0.156060921517579
TGATGACGC	597.669041850347	0.364516522246373
GACAGTCAT	598.443649060554	0.332064812352662
CAGTCATTA	598.750272403533	0.0542968012815645
AATGACCAA	599.477634424287	0.171443598021787
ATGACCAAA	599.61307136357	0.0994870044214343
TTCGAGTCA	599.90031672982	0.165288437127922
GATGACGGA	600.89263814191	0.154394097076877
TAGATGACT	602.446012591298	0.156944122367977
GCGTCATAT	602.533479317781	0.148347071593513
GATGACGAG	603.150454453588	0.0679678308095174
GTATGACAG	603.964126254073	0.0744192677727194
TTATGACAA	605.257783133456	0.122913064475379
AGTCACATT	605.313118873985	0.204791053810428
CATGCGTCA	605.461757717667	0.179228268397937
CATGTGTCA	606.479444847451	0.128549009036449
ATGACTACC	606.726886917823	0.317506711621205
ACGCGTCAC	609.14935247243	0.12916247675945
TGTCAGTCA	609.212484716228	0.204034289047002
AGATGACAC	610.471400137005	0.182451075102557
TCGTCATAA	613.724302223025	0.133685870003092
TGTGATTCA	613.79089931947	0.223050420354346
CATGACTAT	613.834127066304	0.1082585652021
GAATGACGA	615.613845216382	0.172038598552414
AGTCATTAC	615.6610044655	0.170863634097885
AAGATGACT	616.093210337347	0.130161351131027
AGTCATAGA	617.682488446523	0.163907002601581
TAAATGACT	618.663259728488	0.132173802368427
CATGACTGG	619.834081555011	0.132615578920211
ATGAGCCAC	620.219102226749	0.172514576932076
GAAATGACT	620.364440517763	0.170415183391428
TGACTAAAA	620.448289755641	0.192510988605358
AGTCACAAT	621.460170516013	0.111800210684269
AATGAGTCC	621.761823819809	0.313096225168774
ATGACACCA	621.92759284914	0.0677589690751919
TGTTACTCA	623.245700382447	0.159116796483934
GTGAGTAAA	623.611741547665	0.14559084234137
TGTGTGTCA	626.255362298314	0.106127174307246
AGTGACTAC	626.985029550905	0.132637371571143
GTTAGTCAA	628.730626821936	0.165100503526044
GACGAGTCA	629.289801181597	0.189192533486508
CGTAGTCAC	630.783496386366	0.152030743453412
CAAATGACT	631.155452044109	0.146299848536735
TCGAGTCAG	631.457366456272	0.426038306843702
AAATGACGC	632.802802838379	0.0758843859515723
CTGACTCCT	634.354906434254	0.218856253221238
TAGTCATGA	634.480041920383	0.0947514554422961

ATGACTGCG	636.105811932821	0.289640530991239
GGTTACTCA	636.892948817846	0.127955669500893
CGTGACTTA	636.941988338695	0.829300498705349
AATGACATA	637.297940737214	0.174771442592208
AAGTCATTC	638.345128329484	0.0952041705323893
CGATGACAA	638.418036228372	0.162169657001135
AGTCACCGT	638.560618522329	0.173239552202884
GTATGACCA	639.153142776141	0.284896307419199
AACGTCATC	639.25531747619	0.159312551303831
ATTAGTAAC	639.890630668247	0.188434158484269
CGATGACAG	640.406770081793	0.0574106020013651
GGATGACGC	640.810103482816	0.179038778646895
ACGTGTCAC	641.737135284705	0.187164428381787
CCAGTCACA	643.474015107397	0.286670011020553
ACACGTAAT	644.6658424463	0.163855824513482
AATGACACG	646.09056964794	0.138121729437558
AGTCACAGT	646.713794308673	0.156107617639998
TGTCATAAC	647.170113972362	0.303381510084713
AATATGACA	647.230768177489	0.169090336782479
CCTATGACA	647.326738645444	0.123871660464119
CTGTCATAA	648.079234198523	0.170864578113599
GACATGACT	648.187568424776	0.13698134785261
GGAGTCAAC	648.303745408521	0.192453935360601
AAATAGTCA	649.741471610603	0.205285808191256
GATGAGTAC	649.875393053349	0.198853525140246
TAGCGTCAT	651.795378137169	0.218047133893675
ATGACGCCA	652.176231626643	0.308217632896868
TAGTCACTG	652.220958456291	0.181792932229684
CAATGACAC	653.304722147188	0.108870468785451
TGTGACGAA	653.806650281067	0.15765134050711
GAATAGTCA	654.148605719645	0.107747389993212
GTGAATCAG	655.742149940341	0.150830369758184
ACGTCATAT	657.054030319288	0.190308525859807
CAGTCACCA	657.406683366929	0.177166877774941
TGTGACAAA	658.50661611452	0.133564694395196
AGTGACGTA	658.801624818608	0.146865930916018
AAGGGTCAC	659.058262037904	0.153630886003479
AGTCACCGG	660.453089313773	0.192106703352992
AATGAGTAC	661.71488410759	0.272883815722736
AGTCACTCA	661.98565146097	0.101750328363615
ACAGTCAGA	662.169996187145	0.203643700435426
ATGATTCAG	663.687673500063	0.107994064449166
ATGATGACA	664.660213789253	0.127363515314001
GTGACTTAA	666.175958545261	0.187638976193043
GACAGTCAC	668.149210584262	0.130021832343928
GCGACTCAC	669.650439383518	0.18597444146714
ATGACTGGC	669.766662128003	0.318118211356852
TAGTCAGAG	669.84615816095	0.167537128028623
CAGTCACCT	670.123945251205	0.181036239306516
GCCACGTC	671.020687218432	0.10555581739826
AACATGACT	671.214623547198	0.178344674193571
CCTAGTCAC	671.463113473857	0.126962619744047
TACTCATAC	671.837462540986	0.160491594524761
CAAAGTCAT	672.092618550729	0.475739638742278

AACGAGTCA	673.415169161292	0.217623997155666
TCTATGACA	673.47665930403	0.161328765331064
AGATGACGC	674.574029414846	0.211291043394409
GAATGACGT	674.908216948757	0.147751620415455
AAATGACTT	675.921033904224	0.237775560514193
ACGATGACA	676.200015489035	0.151627758733632
GGTGACCAA	676.514961227581	0.168920324562297
GGTGACGAA	677.6842787503	0.147648051899619
GAGTCAGAT	678.068796198674	0.139744624154134
GGATGACGA	679.295824163268	0.156982460861493
CGTATGACA	679.551493446558	0.108806545925664
CCGATGACA	679.721089818124	0.118458682029301
TCGTCATCA	680.247153557457	0.157351406498958
AACAGTCAG	681.254935536887	0.15545537484851
GCTATGACA	681.712439220185	0.235416478916392
CTGACACAC	682.265770449653	0.263097161129241
TATACTCAT	683.995894788589	0.147087639793843
TCGATGACA	684.310932413673	0.238456090831104
GTGATTCAG	685.318617928541	0.151910669531152
ACATGTCAT	685.395227568173	0.166878163214121
AGGATGACA	686.448279554806	0.147352091208485
GATGAGCAA	687.476381370848	0.145800659414185
GACTCACAC	688.112704703248	0.186959825290314
AGTCACCAG	688.294947579951	0.11506389964418
AGTCACCAT	688.333564873169	0.153958518172149
ATTGTCAG	688.75772103886	0.205710124993081
GTGACCCAC	689.729286305891	0.142544007279136
AGTCACATC	692.601963602002	0.23397942105047
AATGACAGA	694.321995825268	0.23186075943856
GATGACCAC	694.589195116629	0.147821086241318
GAGTCAGCA	696.098415427092	0.177540120833671
AGTCATTAA	697.581095946255	0.109162255678401
ATGACGAAG	699.07703560194	0.18666450890857
TATGACGAC	700.350687014271	0.145799827524761
AGTCACATG	700.355253717313	0.146196739554516
ATTAGTCGT	701.49658204886	0.209645619629676
GTTACGTCA	702.378453796021	0.171836904603131
AGTCACAGC	703.097851301926	0.227538889779109
ATTGTGTCA	703.517203072399	0.191710799847649
TATGACCAT	704.106114926349	0.165525322587927
ACGTCATCA	705.28555507905	0.294123781439603
ATACGTCAG	705.900706670708	0.197394284663467
ATTAGTCGA	708.209160125719	0.211557396054216
GGTGACACC	708.68067023826	0.112939686817171
GCGTCACAC	709.238966400964	0.108913589781761
AGTCATGAT	713.642440901748	0.146309191384252
AGATGACTT	713.706933666108	0.192560772564903
TCAGAGTCA	713.765937284275	0.182507654962956
AGATGACGA	715.176615441993	0.134949657986515
ACGTCATCC	717.580627203945	0.174788834910307
AAATGACGA	718.93191737471	0.1701467572365
TGTGACATA	719.55098653784	0.160793749317932
AAGTCACAC	719.563469570317	0.124803807115455
AGTCATTGC	720.646606881783	0.124110308965585

AATCGTCAT	723.757670528443	0.186429416672763
ATTGACTCC	723.794623635525	0.162190151461142
AATGACGCT	724.008181223035	0.373253933506374
CCAGTCACC	724.294195585179	0.118285414765175
ATGACGTGC	725.469062235554	0.20006894581514
CTGACGTAA	726.080170735162	0.186848143446403
AGGGTCATA	727.074000930386	0.144590426259182
ATGAGTGAC	729.571089872501	0.123853518450373
CGTCATACA	729.717690352894	0.192330150072904
TGGATGACA	730.357168148337	0.149074638726641
ATGAGTACT	731.110108121409	0.30006030387199
GGTGACAAA	731.996233654813	0.158987372193306
CATGTCATC	732.307254085808	0.202801483638871
ACTGACGCA	734.118527060421	0.185440081395614
CGTCATAAT	736.910312456922	0.251610721308762
AGTCACCAA	737.541895416142	0.154539641026922
AATGACGAT	737.779844721189	0.210382378873383
GTAGTCACG	738.085974835273	0.178795490186085
GATGTCATA	738.677122313774	0.101835242044179
GTGATGACA	740.603853336909	0.139986511497153
TCCAGTCAC	741.2236615686	0.165970837534023
CTGACGCAC	741.697693306594	0.119854790701362
ATGACGTAG	741.770116288774	0.22102480240236
AGTCATGCT	741.902463421491	0.223857183146154
TATATGACA	742.071307183356	0.134182063262535
ATTGCGTCA	742.665053303116	0.199498717625158
AATGACACT	743.181181894355	0.0916226196841519
ATATGACAG	747.192358779816	0.150136370586456
ATGACACCT	747.707487759213	0.136498862546235
CGGTGACAC	748.066438012257	0.163365791766909
AGTCACAGG	748.780719629897	0.154643365329808
AGTCATGCC	749.98877315774	0.366334229211751
CAGTCACCC	750.018832160406	0.0754028255864198
TATTACACA	750.740564345937	0.148686597357825
AATGACGGA	751.366479164154	0.205289168714103
ATTACTAAC	751.648023653691	0.206436707397473
CACGTCACA	753.268495986763	0.118201146651562
GTGTCACAG	754.185989393968	0.204036508845321
AAATGACGT	755.285955670339	0.169390737468007
ACGTGACTA	755.423007846317	0.166505571207337
GATGAATCA	755.428899651496	0.145273499683381
ACGTCATCT	756.764426319965	0.10895543825429
CATGACTTA	757.28717585808	0.229246705296278
ATCAGTAAT	757.529508568259	0.190800052542907
GGTGTGTCA	757.63268027849	0.188888331071561
TAGTGACTA	758.300657785982	0.194329336189723
GACGTGACT	759.184645705356	0.456140352670957
AATGACAAC	759.839100664332	0.190850946697926
CGTCATACC	759.982300379654	0.092649584413692
AGTCACAAC	760.727972055695	0.129658641297554
CGTCATAGT	760.879531763217	0.118321391233753
CGCAGTCAC	761.152753780469	0.151104286003298
TGACTGAAA	761.70319091776	0.183819692411568
AAGATGACA	762.448102478822	0.153842089538844

TAGTCAGAC	763.932547675301	0.231487998002188
GGTGTACACA	765.52798366627	0.203540177546468
TGTCATAAG	769.469699094703	0.225786671706818
AGAATGACA	770.659806083202	0.171835332953892
AATGACTGC	770.789534952617	0.195081276872877
AAGTCACAT	771.655504705686	0.132184130479741
TAGTCATGG	771.676686206755	0.139137296463103
ATTCCGTCA	772.488329493575	0.160665691067647
ATGACGCGG	772.495682434013	0.172085120689049
ACTGACTCC	772.55887468705	0.166277249937103
GTGACATCA	773.376765176506	0.101816186234693
GATATGACA	773.888249083302	0.109424292324319
CAGGTGACT	774.698938535868	0.182563636518696
AGTCACAGA	774.742972388782	0.144501363615141
ATAGTCACG	775.035977117854	0.119322251808299
ATGATACAT	775.045515873514	0.162072628509977
TATGACAAG	775.065634748555	0.196635842551137
TGGTGACAC	777.307081749601	0.10095607058996
ATGACAAAC	777.475578179612	0.17470137023641
GGTGCCTCA	777.673867577034	0.15744491919049
CGGATGACA	778.030614705763	0.131500134985123
ATGACAAAA	778.737763944151	0.136740192933307
ACTGGTCAT	779.372530323383	0.208220407201755
GAGTGACTG	779.668247596749	0.104922898614967
GTAGTCAGA	779.835966330985	0.145926474831649
GTGAGTACA	780.119098489656	0.113929759039837
TGATGACAA	780.125994582397	0.101886798500743
AGTCACAAA	781.03344849427	0.16945320319882
CGTGTACACA	782.366082205496	0.165185496301348
CATGAGTCG	782.619256955818	0.150858164305221
AAGCGTCAC	783.873311284463	0.15975710091243
CGACTCACA	784.312852402016	0.133922417064741
AGTCACTGA	786.052381193071	0.180169695833154
AGGACTCAT	787.071400859432	0.194059086154576
AAGTCATGC	787.109164832747	0.0745719393569873
TTAGTCAAA	787.19468195134	0.154912567389349
CTATGACCA	788.976174864536	0.159706383777584
TGAATGACA	789.007934874178	0.109919032612318
AAAGACTCA	789.245321082666	0.109386004599158
AGTGTGACA	790.735496667833	0.143886271742692
AGTCATGCG	791.939918709194	0.156317748157915
TATGACCGA	792.740798163094	0.166986414440225
CGTCATAGA	792.948022513287	0.156663100527641
AGTCATCCC	793.189036249857	0.0804218475798933
GCTGACTGA	794.766407426767	0.144777726342935
AACTGTCAT	795.056922430895	0.141211094782762
AATGGTCAT	795.456962931928	0.146427572831523
AGTCACCCA	796.12422994071	0.264960881989359
ATAGGTCAT	796.177002293747	0.192041895935763
AAGTATGAC	798.655756091221	0.138295668360013
ATCGGTCAC	798.786561237225	0.173943733476229
GACTGACTC	800.782914829651	0.185290817954543
GAGTCAGCC	801.169504011759	0.163266709489595
AATGACGTT	801.292952348906	0.169491079926908

CGACTCACC	802.02581825319	0.134483647661835
GTGACACCA	802.989098327706	0.185625385694047
ATAAGTCAG	803.005590499844	0.144938969145254
GCTGACGCA	803.261087736421	0.1728693485704
ATTGGTCAG	803.526989168599	0.159183967891976
TATTACGCA	805.010902085616	0.131181084099017
GATAGTCAC	805.937786158793	0.158240485266141
AGTCACCCG	805.983323554326	0.156879613742699
ATGACGCGA	807.025619608956	0.118105545218313
ATGATTAAT	807.13113860923	0.144272861005067
CATGATTCA	808.224784471455	0.0447911486310476
CAGTGTCAT	808.871115330114	0.195329424763134
TGTGACCCA	809.511597035176	0.207181199073885
AAACGTCAT	812.846504992385	0.156601177583168
AGTCACTCG	812.935613671315	0.135162139349867
CTTAGTCAA	816.224592873625	0.211014674008583
TAGTGACTG	816.858758657997	0.167095432152185
ATGACACGA	816.956300356771	0.0850067694075852
ATGACATAC	817.245769455309	0.147941840631711
GATGACAAT	817.305952723734	0.180384427265558
TAGTGTCAC	817.46043006849	0.182122245176991
AATTGTCAT	817.970415955083	0.210684380762294
ATTAGTACA	818.016516323362	0.158267489253985
AGTCACGCA	821.098881805891	0.1415294944509
ATGTCATAA	821.604465374428	0.151626268152637
TATTACTAA	822.104947101886	0.180396930483129
GGGTGACAC	823.793121982427	0.129209304574713
CGCGTCACA	825.543908986635	0.16630794056987
AGTTACTCA	825.702382413934	0.177041087653369
AGTCATGAA	826.461558305065	0.127060743303979
ATGATGTCA	826.549759466919	0.127319184670785
TCTGAGTAA	826.580082895549	0.164957877656485
AATATGACG	828.117005943307	0.122978886054168
CACGTCACC	828.811263179542	0.141995681892428
TCCGTCACA	831.624956957429	0.135938419567892
TGATGACAG	831.895259789658	0.170481156650294
AGTGTACACA	832.8469278647	0.153249383696238
AGGGTCATC	834.290893507829	0.172278618994754
GTGACCAAA	834.822709926018	0.176568723175468
AATGACGAC	835.528213641357	0.158410335587232
AAACGTCAC	835.72849934765	0.137139451696451
ACATGTCAC	836.431313630984	0.141249445667781
AAGTCACAG	836.615475209267	0.141413866435824
AACGTGACT	836.648025934317	0.11660975078524
GTGTCACAT	838.974752629196	0.0613731445407174
CAATGACGA	839.687058463911	0.075339335931822
AGTGCGTCA	840.930117267691	0.136010774124348
AGTCATGGC	840.946579120572	0.178754305077835
AATGAGCAA	841.344925042763	0.165652783489341
ACGTCACAC	842.116597490377	0.159180333670988
TATTAGTAA	842.275495607531	0.1690840010452
ACCCGTCAT	842.435507157584	0.156383846033168
AGTGTGTCA	842.61362174785	0.141016094883253
TAATGACGA	842.923518793526	0.148893799037713

AGCGTCACC	845.647724757609	0.1206938512487
CGTCATACG	846.022881846279	0.122847449512496
TACGTGACT	846.600978295352	0.155875102018612
AGTCACCGC	847.204207491262	0.181105977965882
AGCGTCACA	848.880473347361	0.183663473879467
ATGAGACAT	849.010391424379	0.170360688129695
AAGTCATGA	850.050039145331	0.0747112412969882
ATGTCATCG	850.339317134419	0.0439564348020318
ATGACCAAC	851.122215473182	0.128084794858363
CGTCATCAT	851.813601378661	0.14485429312916
AGTCACCAC	852.114854214997	0.152284819582125
AGTCACTGT	852.449026609621	0.128332974370004
AATGACCCA	852.607085292074	0.123167289157718
TAGTCAGAA	853.134066426027	0.148591088545429
CTGACGCAA	853.533117438314	0.128132581852705
GCGATGACA	854.45453214485	0.122995708003021
TATGAGTGA	854.548852124291	0.118940173844214
ATGACAGAA	854.629686520583	0.196077299762736
CATGACGAA	854.785081575179	0.149735091274597
AGTCACAAG	855.94478053624	0.122772634057999
CTGACACAA	856.614325195847	0.147921627821604
GGTCAGTCA	857.139284500289	0.138463731440997
GATGTCATC	857.259547375273	0.174861222783346
CGTCATAGC	857.430780049985	0.16267614958692
CGTCATAAC	857.511264019505	0.133057662182514
TATGGCTCA	858.397213391768	0.143222192052047
ACCTGTCAT	858.445268532754	0.151990635614758
AATACTCAC	858.480676741332	0.135393810209264
CAAGTCATT	858.714858059437	0.125362246681614
AATCGTCAC	858.806244596967	0.147972200589682
TATATGACG	859.29695084517	0.110531144559444
ATGACACCG	859.455691865876	0.0899686295350092
CTGACTATA	859.750778419353	0.141157208365758
ATTTACTCA	860.030874902519	0.120386431771929
AAAATGACA	860.962565729895	0.152245178074291
GGTGACATA	861.28459819534	0.144478857426637
ATAACTCAT	861.509408236205	0.125104731341534
CGCGTCACC	862.198464556885	0.130935880881521
CCACGTCAG	862.482092434471	0.142142019832588
ATGACCCTA	862.500382614143	0.115194577128634
GTGACTTAG	862.631291296145	0.136339967148537
ACGATGACG	863.128800250849	0.135961442915607
ATGACCCAA	864.576056211252	0.199090136173463
AATGGTCAC	866.359852757698	0.148848258962128
AAGACTCAA	867.125487086758	0.12904708429362
ATGACCAAG	867.472525981599	0.140796673405104
GACTCATGC	869.842866100672	0.145803076381201
GGGTCATAC	869.863872481417	0.121198063446452
TCTGTCACA	870.705980303919	0.144599810939894
AGTGACTTA	872.305932496626	0.110922853115271
CAATGACGC	873.380499810477	0.145261894173488
GTGACGAAA	873.758575108364	0.114787490867726
ACTCGTCAT	873.978359449771	0.0822149539023972
TCTGCGTCA	874.011835105091	0.121296277939111

CGTCATAGG	874.52632256362	0.183634033144496
AGAATGACG	874.654655501654	0.136691408044061
ATTACATCA	875.834917929281	0.157489590060527
TATTAGTCG	876.284338981177	0.0850414754666845
AACCGTCAT	876.461922820523	0.118611230459919
GACACGTAA	876.917449827367	0.149900305084619
TAGGTGACT	877.501046544815	0.16512838012532
TGTGTGACA	878.064910678179	0.11316630215161
ATGACGATA	879.076898681562	0.129100236560949
AATAAGTCA	879.283524997983	0.12149836714596
AGTCATGGA	879.48712818691	0.128104049278052
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CAGTCAGAG	880.88311857122	0.113026102834952
AGTCACTTA	881.279571799856	0.125563154421968
GGTGACACT	881.81808716549	0.0664277294556047
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GGTGACAGA	883.349363820971	0.131119833242606
GTGACGAAG	883.929656793959	0.133509401002588
AGTCACGAT	883.948766571469	0.102956399099916
AGAGTAATC	884.323855544993	0.124099863487691
CGAATGACA	884.391827725618	0.10735003196117
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CGACTCACT	885.35346705176	0.124266815254872
ATGGGTCAG	885.505721275135	0.1211396617981
GAATGACAT	885.730178698076	0.125760517623877
ATGTAGTCA	885.774500275365	0.114398280304613
GATGACCAT	886.331081426326	0.119951511632004
ATTTGTCAG	887.185341005985	0.122977532645224
CTGACTCCA	887.640060013866	0.116104796458474
TCGATGACG	888.18056213813	0.120820770451044
CAGACTCAT	888.44285608511	0.112175206779147
GAATGAGTA	888.600063529821	0.116786494917183
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TACGACTCA	890.93986430188	0.126406986437224
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GACTCACCG	894.841485849779	0.116849621575279
AAGTCACAA	895.257452607752	0.12038407551348
GTGACGGAA	895.286260607716	0.119102112671571
ACTGACTCG	895.324044010858	0.107216790163139
TAATGACGT	895.581656494406	0.165543402833927
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TATGAGCCA	897.894759370112	0.136716669276651
CAGAGTCAG	898.804491651623	0.144465996294947
CAGCGTCAT	898.896713230357	0.111804415868102

CGATGACCA	898.945803859673	0.186995588066124
GTCGACTCA	899.126817940158	0.0955870241189941
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ATGACCACA	900.807314599637	0.0892899571708538
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GTCATGACA	901.335217154547	0.0792851764036245
ATCACTCAC	901.648752296256	0.0978039288944309
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GAGTCAGCT	903.465755499964	0.127371472990524
GTGACCAAC	903.54777517094	0.112625790264768
ACAATGACA	903.560654789106	0.0935795686217991
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GTGACATAA	907.620378507127	0.121704413764612
GACTCACCT	907.886283509321	0.0931337773165834
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AAATGAGTA	909.700700184009	0.103241161688443
AGTGTGACG	909.70227961186	0.0986118722209874
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AATGAATCA	912.212787312132	0.117036071460003
TGAGTGACA	912.497297766883	0.0954310602135826
CACGTGACT	912.563319342477	0.0739493300838572
GGACTCACC	913.975479626577	0.082139562519786
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TCTTACTCA	914.42089743307	0.0930034396056654
GACTCATGA	914.577391595719	0.0978948933532063
GTGTGACGA	914.631551895558	0.0864281784167451
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GAGTAATAC	915.663039321983	0.105221210374062
GCGATGACG	915.728397773097	0.0681306787997255
GACTCACAA	915.86461859924	0.100279650465085
ACCACGTCA	916.363847457526	0.10768579087009
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AGTCACTGG	917.156373633886	0.0779377939453396
GTTACGTAA	917.267063726109	0.127207308104274
ACAGGTCAT	917.376196609559	0.0830040933115181
CGATGAGTA	918.047840204357	0.10323776132697
AGTGATTCA	918.507435832883	0.0843305940246711
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AAGTGTGAC	922.691923096169	0.111353553376574
ACATGAGTC	923.168996136111	0.0786455717544908
GGATGAGTA	923.619453959224	0.0997858245797332

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AACTGTCAC	924.148116084397	0.0836045072907473
ATTGACGCA	924.310965758808	0.10227645985266
AATTTGTCA	924.472059284565	0.0845397863272868
CAATGACGT	924.523292479283	0.0791391933052731
CTGACTACA	924.96087956209	0.0775650254753511
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ATGACAGCA	925.363771205477	0.0791641194294529
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AATGACAGT	926.001064135766	0.0980004451826859
ACTGGTCAC	927.062873707529	0.0952870937334671
CGTGACCAA	927.662102431513	0.0758199590512184
AAAGTGACT	928.047882406119	0.138020283194804
ATTACGTGG	928.217538522408	0.0820813297137892
TAGTATGAC	928.349902953153	0.0981630173871052
AATGACAAT	929.827407637857	0.0817763048403217
ATGACATAG	929.880415322891	0.092907945754334
AATGACAGC	930.187128557287	0.0686490663604943
GTGACGACA	930.608357266032	0.0559231153312572
GAGTGACGC	930.756128627099	0.115795705809071
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TAATACTCA	931.439394132118	0.0681137703629639
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GATTCGTCA	932.10582329839	0.0788185940285652
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TATGGGTCA	934.434332023692	0.123679894748458
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GGTGTGACA	935.423136384959	0.0823885634477987
TACTCATAG	935.489307799818	0.0861818320981032
TTATGACCA	935.94174689869	0.112898583998831
ATGATGCAT	936.424837653485	0.0847960210634355
GACTCACAG	937.364556333889	0.0731915821267112
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AAGGTCAT	941.001509627899	0.0584993363825417
GTGACAACA	942.225230182444	0.0711148675234708
AATTAGTAA	942.413364979568	0.0724260192789616
TAAGTCAGA	943.982873147674	0.0658935300465921
CAGTCAGAC	945.326884085096	0.0876761212365547
CGGATGACG	945.888505741696	0.0933768419123025
GATGAGTGA	946.608874307421	0.0798718902932602
TCTGACCAA	947.51799454733	0.0661380098897481
ATCGTCACA	948.241300059451	0.0652667732578968
ATGACATGG	949.081682845703	0.0589920260020943
CTACTCATA	949.386250531805	0.0615612188274269
TCTCAGTCA	949.72815411992	0.0638966603108481
CGCTGACTA	950.314888913357	0.0716455885600341
TACGTCAGA	950.482313873327	0.0624442630065458
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AAGGAGTCA	951.620015857962	0.0690703040675801
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GGAGTCAAA	952.728755567686	0.0580315800223006
GACTCACCC	953.051643625998	0.0644352803099369
CTAGTCAGA	953.986594001082	0.0289132767107913
ATTCTGTCA	955.016688438247	0.0709338209386573
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GTTCCGTCA	955.640907002449	0.0662618048796548
GACACATCA	956.438617093371	0.0446326607157912
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AGTGACACC	957.769919522539	0.056306227315023
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GTCACTCAC	962.009228295441	0.0543586281701392
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GAACAGTCA	962.491090657237	0.0485431676882419
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ATGACGGTG	965.303894230722	0.0538075144463928
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GAGTATGAC	966.711929031951	0.0369005954453625
ATGAGTCCA	969.720982912478	0.0351885727861528
GTATAGTCA	970.702360980863	0.0567070409869675
AAAATGACG	971.156363508532	0.0454083454592746
GTTGTCACA	972.39313525633	0.0341980663761477
AACGGTCAT	972.801494982152	0.0564842558056916
AGTGTCACT	977.683675005767	0.0398849678867641
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ATGACTCATC	14.288868887367	0.245801791844273
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ATGACTCACA	15.3306811918119	0.118229657235448
GTGACTCATA	16.2857340940589	0.155318530869133
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GTGACTCATT	17.9532367668755	0.342493428937802
TGAGTCATAC	18.7194832150625	0.102677937983454
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TCTGACTCAT	20.0205376682854	0.105757328269662
CTATGACTCA	20.5323278077324	0.20837914811336
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ATATGACTCA	26.0954755644595	0.169714190738426
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GATGACTAAT	28.6852471197302	0.18098788324793
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ACTGAGTCAT	30.5441336625983	0.199977697549673
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ACTGACTCAT	30.6765655566977	0.209087704982132
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CATGACTCAC	35.4256111124458	0.675072318888812
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GATGAGTCAA	35.7132785167397	0.0847143686440709
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ACATGACTCA	38.041485782928	0.385783534429293
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TGAGTCATCA	39.2118512681141	0.58034075271627
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ATGACTCAAC	40.1259338151266	0.165829174717699
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AATGACTCTT	41.5402442953046	0.221218531801853
TGTGACTCAA	42.1717641174469	0.446726337537882
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GTGACTCAAC	44.1478332277207	0.175232885248177
CAGTGACTCA	44.4051288014065	0.161947277886283
ATGACTGATT	44.570993730118	0.280509448696908
GATTAGTCAT	45.1668639457127	1.07732895472965
TATGACTGAT	45.1786731848596	0.258898842548386
TATGAGTCAA	45.3105166840752	0.404570577476155
TGTGACTCAG	45.7695673666788	0.287139759595376
ACTGAGTCAC	45.9367884597541	0.30766905683634
GCTGACTCAC	46.2814640645018	0.472742250020649
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AACAGTCAGT	46.5404324792123	0.332046331351398
AGGTGAGTCA	46.7369563097462	0.213927188248383
TGGTGAAGTCA	47.0200653686813	0.211204390271731
AAGAGTCACA	47.0286670884128	0.172867407416338
GGTGAAGTCAC	47.0629756794628	0.650800409541633
GTGACTCAAC	47.1194656987924	0.276320234698745
AAGAGTCATG	47.4551942372755	0.219616465788704
TAAGAGTCAC	47.9228069976817	0.109367474236519
AAGAGTCACC	47.9408619239273	0.172892657024805
TGAGTCACCA	48.5634786927679	0.151336449377456
TATTACTCAT	48.8647379670354	0.277375154266078
GTGAGTCAGT	48.9790396904407	0.200371174123114

GGTGACTAAT	49.0804220738365	0.237845973062337
GCTGAGTCAC	49.4813279447552	0.329553335040967
TGACTCACAC	49.6433795569052	0.2459374775399
GTGAGTCAAT	49.6541963777057	0.245587104650553
GTGACTCAA	50.0540527660325	0.251367104216713
CGGTGAGTCA	50.5816946681469	0.382759186818223
TGAGTCACCT	50.6323769441114	0.348270917241283
CGTGACTAAT	50.6387193468149	0.213853547736003
ATGACTGATC	50.7144991978656	0.163311204357689
AGTGAGTCAG	50.8889279972328	0.23226236708752
ATGACTAAAT	51.0199224763629	0.234180368321705
CATGACTAAT	51.1257548089471	0.161582546719494
TGAGTCATCC	51.1618095790884	0.440614493152543
AATGAGTCAT	51.2616303540613	1.50503364050954
AAATGACTCA	51.3850386875021	0.47544087634824
CAGTGAGTCA	51.5020546576525	0.102986974201217
GGTGAGTCAG	51.5780255204768	0.162235064355963
GATGACTAAC	51.7816458372931	0.15628284338938
TATGACACAT	51.8468233197809	0.269344339548118
TCTGACTAAT	51.8754828510174	0.309156978044643
TGACTCACAG	52.31342798603	0.157585180689892
ATGACACATT	52.6956247264087	0.357633396364832
TAGTGACTCA	52.8017202842127	0.351891235561377
AGTGACTAAT	52.8816596643356	0.256070993321625
CTGACTCACA	53.0022179588735	0.422885714642182
ATGACTAACA	53.6769087104694	0.278462003743009
TGACTCACAT	53.8322346515272	0.263939113426281
CCATGAGTCA	54.0675840049296	0.345022024149373
GATTACTCAT	54.1339048876634	0.284781463841662
GGTGAGTCAA	54.3432450829461	0.231754817573286
GTGAGTCAA	55.3388529118548	0.358186497634405
GTGACTAATG	56.497001504649	0.287769349840475
TTCTGACTCA	58.3841484400223	0.150401527122763
GAGTGAGTCA	58.5908537165221	0.302733834781084
AATTAGTCAG	58.6077899197365	0.104839766788548
AAGAGTCACT	58.6555220146787	0.251100423241767
ATGACTGAAT	58.6898510136248	0.199158228020474
GTCTGACTCA	58.7201228986031	0.153641430781155
AATGAGTCAG	58.784055805218	1.58844910044847
GAGTGACTCA	59.02881350663	0.342014723596201
TATGACGCAT	59.3593515983391	0.455816890422536
GTTAGTCACA	59.4196179183985	0.305906293584082
CATGAGTCAG	59.5550210012816	0.234685874946149
TCTGAGTCAC	59.7318759888867	1.28096967533445
CTCTGACTCA	59.7619173815425	0.225016337652897
TAATAGTCAT	60.2160255482533	0.261511162792784
TTAGTCATAA	60.2339162075679	0.146014401126543
TTAGTCATAG	60.6356899829819	0.285096581686207
TATTAGTCAG	60.8205922635218	0.163550566203121
ATGACTAACT	61.1311002478186	0.23223549949145
GTAGAGTCAT	61.3021429837413	0.180590825936878
ATGACTAAGA	61.3654270474392	0.143379630825981
AAGTGACTCA	62.9105426860026	0.268330231946344
AAGAGTCACG	62.9356485031664	0.189802646123656

ATGACGCATA	62.9381323148392	0.188309570531569
TATGAGTAAT	63.5668106556071	0.197635576727581
GTGACTGATT	63.6315043600254	0.242405937856154
AAAGAGTCAC	63.8105043945576	0.214600818336082
GTGACTGATC	63.9741132164715	0.127060722234794
TGTTAGTCAC	64.2611868103195	0.296985013785416
AATAGTCATA	64.3236149889612	0.148670035120084
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ACGTGAGTCA	64.5055966594904	0.286443510170622
TCGAGTCATA	64.5098770689688	0.176336098035198
TTAGTCATCG	64.5447753959131	0.103867429358915
GTCTGAGTCA	64.8969604096533	0.179890826344537
ATGACGTCAT	65.178840704028	0.21226087404486
ATGACACATA	65.413959190428	0.170471465415203
ATAGAGTCAT	65.7078351898723	0.175581316900661
GAAGAGTCAC	65.8642269042112	0.174567719350219
ATGACTAACC	65.9033625239096	0.150619884671991
AATGAGTCAA	66.161282293517	1.52967969887242
ATGACACATC	67.0273874330895	0.26639704511955
ACGTGAGTCA	67.0791246692354	0.687791449025137
TATTACTCAC	67.1043815930785	0.201853771034343
AATGACTAAC	67.2986365533863	0.270952486779519
TTAGAGTCAT	67.4733327198272	0.236376144084733
CAATTAGTCA	67.492037158449	0.11749694625171
GCATGACTCA	67.5986307441812	0.253170422104752
CCATGACTCA	67.8642222127866	0.712490287464081
TAGTGAGTCA	67.9229924893732	0.357700404934126
ATGACTGATA	69.0526286890667	0.321700198428173
CCGTGAGTCA	69.1062652736178	0.864236859850692
AAGTGAGTCA	69.2167733951089	0.159991869156013
AGTGACTCAG	69.4753582154951	0.165276565064911
GTATTAGTCA	69.6060785120722	0.146610771015084
GCTGACTCAT	69.9361859343779	1.43091518883352
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GCATGAGTCA	70.0467732224472	0.151271658135997
GATTAGTCAG	70.4547744480377	0.251686640551245
TCGTGACTCA	70.7381078935605	0.874427201872402
GAGTCATACT	71.4272984004052	0.189473141293715
TCTGACTCAG	71.5684225571954	0.349525823168135
CGTGACTCAG	71.7899070091153	0.111556410903282
CGTGAGTCAC	72.1243956607861	0.985640622059188
ATGAGTCAAA	72.4366425808443	1.51778944955774
TATGACTCGT	72.6221421582115	0.163228022999624
GAATTAGTCA	72.9628501425635	0.170828932274719
AATTACTCAT	73.2749719423937	0.474874555216685
GACACGTCAT	73.7019752969636	0.205913550548565
GTCAGTCATA	74.2433187434741	0.250610098754068
ATGACTAAAC	74.4038543475664	0.231300798125417
GATTACTCAC	74.4757356568113	0.190747173337773
ATTACTCATC	75.3167574469458	0.222488907735617
GCGTGACTCA	75.3189409794919	0.669072632075205
AAGAGTCAGA	76.1854652597539	0.206521302479489
AGTTAGTCAC	76.5912406679346	0.308411589195265
TTAGTCATAT	76.7855020486357	0.287883187590979

GATGACTGAT	77.3947098306996	0.0201423336214536
AAATTAGTCA	77.5989642071957	0.213714947720107
ATGACGCATC	77.7633767339487	0.297770376606793
TGTGACTGAT	77.7835559987583	0.183042503309984
TAGAGTCATA	77.994132362951	0.479534042678141
TATGACTAAG	78.4292147494455	0.212371553038114
GTTAGTCACC	78.5193472876418	0.182046572353694
AATGTGTCAC	78.5673664006431	0.173312638521007
ATGAGTCAAT	78.5886882415209	1.47301567052766
ATGAATCATA	78.8063584107658	0.303788088977082
TTAGTCATAC	79.0141725618189	0.408749300697113
CGTGAGTCAG	79.5343185208252	0.344440939366059
GTGACTCAAG	79.6229350703257	0.292635951248602
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TATGAATCAT	79.9768574539998	0.184682774554994
ATGACGCATT	80.3969986800335	0.369992211022235
ATATTAGTCA	80.4300709113424	0.0515262813288931
TTCTGAGTCA	80.4424697573633	0.301176472630153
TATGTGTCAC	81.0775982546923	0.217012716692433
CGATTAGTCA	81.310268350004	0.199014272569227
TCTGAGTCAG	81.7131327218327	0.461449775526312
CTCTGAGTCA	82.2443830162918	0.447969918328132
GTGACGCATA	82.3492920746575	0.203336660370007
GATGACTCCT	82.3623714525333	0.206564371493287
GAGTCAGATG	83.7130318815367	1.41025520413101
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TCTGACTCAA	84.2508749655814	0.244506563104739
ATCTGAGTCA	84.3440421123772	0.287105273174073
TAAGACTCAT	85.0098768551132	0.184904039923359
ATGACTAAAA	85.0605115549946	0.355960497870438
AGCTGACTCA	85.1370753571771	0.149915853932934
AACAGTCATA	85.2755086231513	0.169322258924218
CGCTGAGTCA	85.6303330620887	0.337630985559385
TAATGACTCA	85.9061209744316	1.39375864202281
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AGTGACTCAA	86.4650351840221	0.561671797671049
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ATGACGTCAC	88.4200489706569	0.237488632817999
GTGACTGATA	88.420842183885	0.188551300906199
GGTTAGTCAC	88.5341378024214	0.308492098440372
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GAATAGTCAT	90.3181133279038	0.127176051010542
GTCAGTCATC	90.5035395864211	0.169525023544717
ACGTCATATG	90.5777454685035	1.29120528626627
GTAGAGTCAC	90.6631393967952	0.201732783442088
ATGACTAAGT	90.7819026139362	0.298779322168062
GATGACGCAT	90.8675539250433	0.200210377104776
GGATTAGTCA	91.4739616259669	0.119960419617733
GAGTCATACA	91.4999848887347	0.265798830339936
ATGACTGAAC	91.6812648785518	0.266620427236491

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GATGTGTCAC	92.6016579713849	0.132530788228959
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ATTACTCATT	93.0958299124878	0.368241638196177
CATGACTGAT	93.2302582136054	0.168186376722427
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AAGACTCATA	93.9800437307771	0.355113047391994
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GTGACTAAGA	94.7719871685458	0.218175242136659
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GACTGACTCA	98.0827394896285	0.312205083100402
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TATGATTCAC	101.187068058414	0.199386445733122
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TGATTAGTCA	107.355833611278	0.280457559995356
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GATGACTCCA	123.261925883007	0.295665536763036
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CATGAGTCAC	124.015414389556	1.64815004351927
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GCTGACTCAA	125.496791420811	0.460236736042417
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TCAGTCATCG	126.911779325507	0.319859030513699
GAGTCAGATC	127.370274385698	1.26839249439432
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CAATGACTAA	130.562164791722	0.46544861915945
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GTGACTCAGG	131.84719381059	0.919447333153115
GAGTCATCGG	132.255454881249	0.260179258910055
TGACTCAACC	132.328827244852	0.209727595205857
GAACAGTCAT	132.582195660847	0.255929597024364

ATATAGTCAT	132.586495020064	0.346568426778803
AATGACGCAC	132.667249877555	0.24305808783071
GAGTCATATT	133.361031118518	0.310448982404001
AGTGACTGAT	133.492427320564	0.270629570669712
CTGAGTCAAC	133.645286444178	0.276568674234244
AGAGTCATAT	133.699000887962	0.231350093692081
TACACGTCAT	133.752245334319	0.204155887689839
TACAGTCATA	133.938509509177	0.230058383183871
TATGACAAAT	134.618666165969	0.214599164762803
ATCGAGTCAC	134.859441367505	0.284832408326471
TGACTCAACA	135.541324733426	0.292495837804086
ATGTGTCAGA	135.983460523986	0.238582128173597
GTGACGTAAT	136.170900219149	0.26780143839398
CATGAGTCAA	136.26297703764	0.498258831437328
CGATGACACA	136.448601966554	0.352058827184555
GTAAGAGTCA	136.518672155532	0.322860953675912
GGGAGTCATA	136.695475908063	0.182197989596195
GACACGTCAC	136.811964870665	0.178080731878931
GAGTCATATA	137.031793743335	0.306178801935724
ATGAGTCGAC	137.103702444134	0.287737759183061
TATGACGAAT	137.332346025128	0.374353483896754
TCGAGTCACA	137.379614418101	0.377941709559167
GTGACGTCAC	138.02660899983	0.122158984084658
GTCAGTCACC	138.251621943702	0.267184234047154
GTCAGTCACA	138.283681849588	0.355356445820152
GTATGACTAC	138.550892447561	0.118865231846424
TGACTCAACT	140.031381804253	0.118269943434833
AAGAGTCAGT	140.076796409874	0.158308852678233
AGTCAGTCAC	140.167218025089	0.248801874247326
GGCTGAGTCA	140.383318791286	0.166870629942561
AATGATTCAC	140.453995073845	0.148891530737139
AGGTGACTAA	140.557780875705	0.16860905178607
TATGACTACT	140.710024916656	0.164708803148292
AATGACGCAA	140.946360578423	0.128017706874669
AATGACTCGT	141.153221644987	0.212734742422771
GAGTCATTCT	141.230957792088	0.271877321695944
AGCTGAGTCA	141.812707661002	0.0819852429934672
ATGACTCAAG	142.034149240222	1.16114215352736
TTCAGTCATC	142.146397069283	0.243408063216731
TATGACTGCA	142.148900664568	0.238483605032144
AATGAATCAT	142.24410158234	0.49262641272367
TTCGAGTCAC	142.554366397269	0.231421577244993
GCGTGAGTCA	142.839919270259	1.12429418633925
GAGTCACACT	143.268099683202	0.285933170224047
ATGAATCATT	143.596711071369	0.393199156073679
ATTACTACC	143.741034062789	0.140838207084686
GATGACCCAT	143.842238976698	0.196843223455746
TTATGACGCA	144.000596790348	0.346524861760227
ATTAGTCAAT	144.656397151211	0.499985685651651
TTATAGTCAT	144.956492096815	0.380292600194309
GTATGAGTAA	145.151141925196	0.198388343104693
ATGACGTGGT	145.575726193761	0.271718035071522
GACTGAGTCA	145.815635340047	0.352285501024566
TGTGATTCAT	146.350892413147	0.349490277298054

TGACTCAAAC	146.449106185066	0.0712364414297955
AAGTGTCATA	146.455835770697	0.233789420074889
TATGACTAGT	147.189021269485	0.247699546774946
CGATGACGCA	147.372401276826	0.426863914117072
TGTCAGTCAC	147.589234888395	0.319071351005996
ATGAATCATC	147.829633985952	0.246976034777246
GAGGAGTCAC	148.441189245371	0.250891486300138
GAGTCATCCA	148.695881720289	0.10971263634854
GATGACGCAA	148.699761710445	0.252305733354308
ATCTGACTCA	148.997393583922	1.0868196542498
GATGACTCGC	149.091281831002	0.242611809090105
TGTGACTAAG	149.183988689252	0.226522967971261
ATGTGTCACC	149.465763880995	0.192346313622793
CAGTCATACT	149.665248807539	0.286961967865895
GAGTCATTCA	149.726302183297	0.340504595445406
GATGACTACA	149.821860822902	0.387429805241765
ATGACGAATT	150.07369269088	0.297313250483973
ATGACTCCTT	150.13332631053	0.155208146255249
GTATAGTCAT	150.546688484266	0.223794612450302
ATGACTGATG	151.019536526785	0.317085681488756
CATGACGCAT	151.392342909825	0.816013334110957
GCGAGTCATA	151.681821985319	0.151625671462112
GTCAGTCACG	151.885585112255	0.104044708964477
TAGAGTCACC	151.933634126827	0.27127978194454
AAAGAGTCAG	152.154519274541	0.177197228895727
TGTCAGTCAT	152.241737820193	0.542363768998114
GGATGACACA	152.693629444271	0.0682504247804122
GAGTCATCTA	152.860913453932	0.220472555918636
TGTGACGCAC	152.862445781358	0.173934570182338
AATCAGTCAG	152.869032725095	0.30516177283884
TAGGAGTCAC	152.923367786703	0.223058549676879
GTGACTAAGC	153.130997532651	0.223736253646003
GAGTCATCGC	153.315456605803	0.22698088494032
CGTGACTGAT	153.345713722807	0.413928192511253
AACTGAGTCA	153.504222791779	0.275011740811352
ACCTGACTCA	153.762449406677	0.448511976015757
AAGTGTCATC	153.763100161958	0.262973057368403
GAGTCATTGT	154.481935672029	0.167878988864792
ATTACTCACT	154.53856641069	0.235639595065229
GATGAGTAAC	154.730410960726	0.20575617709039
GATGACTACT	154.862039903263	0.221930536061824
GACGAGTCAC	155.019343645816	0.28961958537468
CGAGTCATAA	155.118716019402	0.452987441906985
AAACAGTCAC	155.579449437365	0.222013039865974
TAGTCACAGG	155.662590516794	1.42808329724152
GTATTACTCA	155.805251655894	0.267643895876244
GCCTGACTCA	156.1290586922	0.39710549242898
ATTAGTCAAC	156.161301975807	0.246422014195053
AAATGACTCC	156.454553111412	0.0936443797972812
GATGACTTAT	156.592310893985	0.25921192217937
TAGTCATAGT	156.689382125465	0.21741228572274
GAAGGGTCAT	156.926697576218	0.732778429457808
ATGACGTGGA	157.04235624596	0.216769108797195
AACTGACTCA	157.115270939229	0.943669539232912

TCAGTCATCA	157.146063626146	0.287228135853008
GTGATTCATC	157.148421102913	0.219058998145924
GAGTCATATG	157.294387063525	0.181257483980474
GCCACGTCAC	157.498592222604	0.19622672955923
GATGACCAAT	157.523330728491	0.262972683631614
GAGTCATCTT	157.732142119106	0.19142668234918
AAGAGTCAAT	157.811836358316	0.226652203214043
TATGACTGGT	157.914584390293	0.0910121418837517
CTGACTCAA	158.051904998938	0.254662151907475
AATGACTCCA	158.512646730397	0.220270952563683
GTGACGCAAT	158.66071737847	0.277933197555067
ATGTGCTACT	158.710776941439	0.292736405591088
TCAGTCACAG	158.858060813697	0.169995016615044
ATGACGAATA	158.862444874993	0.257583317494096
ATTACTCATG	159.998570787767	0.243268006385723
AACGAGTCAC	160.37783465569	0.300659807432442
AATAGTCATT	160.749402904096	0.475321586350211
GGTGATTCAT	160.987127415691	0.250943564735397
GAGTCATCCG	161.18272984988	0.404586079707505
AATTAGTCAA	161.266997484248	1.06111944485632
ATTAGTCAGT	161.446236265578	1.0433135198523
AAAGACTCAT	161.502486541998	0.115515230147665
ATGAGTCGAA	161.958689706563	0.350530774281348
AAGAGTCAGG	162.494911984972	0.220477106919398
CACAGTCATA	162.501069852737	0.180254891341506
GAGTCATATC	162.712414877862	0.473568580438659
CGGAGTCATA	164.266901349456	0.397414186103605
GAGTCAGCAT	164.512926276925	1.03983624347664
GAGTCATCAT	164.617661919911	0.35398111897548
GTGACTGAAA	165.313167681779	0.25536178160484
TAGTCATAAT	165.360171319084	0.268789111544765
TAATGACTAA	165.39673388216	0.164763384580839
ATGACTGGTT	165.504046115575	0.292493911324803
TATGACAGAT	165.514322617094	0.239591279178893
TAAAGTCAT	165.869076641567	0.179776489186996
GAGTCACACA	165.950220303653	0.366689794329391
GTCAGTCATT	166.063440776264	1.01490935610831
CGTGACTAAG	166.27967205696	0.285261707359759
AAGACTCACA	166.57546734166	0.156313511579815
TCAGTCATCT	166.76450103425	0.190933989456438
TTAGACTCAT	166.801656446566	0.273811667370087
AATGAGTAAC	166.813911309008	0.453984200932165
TCAGTCATCC	167.050403929987	0.205932192287753
TAGAGTCAGA	167.156838190474	0.280436632273233
GGTGACTAAA	167.253264226246	0.348232792997978
GCTGACTAAC	167.259545263228	0.276353826472478
GAGTCATCAG	167.261687000028	0.329060559397827
AGTGACGCAT	167.577207746436	0.208348364024486
CTGACTCAGT	167.682530309249	0.63762498612837
ATGCGTCAGA	167.762222449472	0.192854316044658
TCATGACTAA	168.04892543309	0.730670898270936
ATGACGTATT	168.454166218832	0.484693673127496
GAGAGTCATC	168.797242071571	0.374465589677275
GAGAGTCATG	168.797986756289	1.15081056447381

ATAGACTCAT	168.859239446278	0.23988011931355
GAATGACGCA	168.992309663564	0.30028743585541
ATTGACTCAA	169.198731048881	0.457945932371485
ACAGTCATAG	169.242252116688	0.185452350231873
ATGACGAATC	170.3473100713	0.361178193206412
ACTGACTCAA	170.443649613003	0.398392024179888
TACTGAGTCA	170.673907048374	0.396191452690103
ATAAGAGTCA	170.954771334787	0.241595654876005
TAAATGACTC	171.390825469248	0.265834549935726
CGATGAGTAA	172.699417995353	0.215194268032002
TATGACTGCT	172.85001436971	0.152852610596342
ATGACGCACA	173.060719559473	0.158293345793262
TGACTCAAAA	173.138267407857	0.205756460154036
CTAGAGTCAT	173.36462350261	0.181807509820933
GTGATTCATT	173.576490047277	0.269796661631349
GATGACGTAT	173.599825259646	0.176596056533041
ACACGTCATA	173.736046891756	0.521136810510397
TTAAGAGTCA	173.899165501621	0.147222433121359
GCATGACTAA	173.979872837362	0.428921815776378
GGTGACGCAT	174.408643539562	0.416215102689647
TAGTCATACC	174.790984607072	0.163531832447788
GAGTCAGATA	175.166902811936	0.741697854242876
TCAGAGTCAC	175.216440464572	0.412247035007089
TAGTCATAGC	175.576999305873	0.20566962733964
TAGAGTCACA	175.890483016364	0.204938885727783
CAATGACGCA	176.111940108797	0.218223123799422
GGAGTCACCT	176.194228940467	0.109420804739892
TCTGACTAAA	176.484305711083	0.299168890003668
GTAGTCATCG	176.888116384783	0.32499712896738
AGTGTGTCAT	176.930933414475	0.213695527719761
GTGTGTCACC	177.227465271953	0.161660897818962
TATGACATAT	177.592405641725	0.310154819444008
ATTACGTAAT	177.666178891411	0.222025971651884
TATTACTAAT	177.785695008434	0.200883856265044
TCCTGACTCA	178.22665261767	1.00489553942266
GCTGAGTCAA	178.296580490426	0.235694587788007
GTGACACAAT	178.408123558153	0.109776366512245
GGTCAGTCAT	178.52453361493	0.286564605792195
TGTGTGTCAT	178.849730385097	0.202565719218195
TGATGACACA	178.974666867407	0.24076029880379
GTGATTCACA	179.736146234432	0.190369508340544
ATGATTCACA	179.755304536136	0.595867976703469
GTGTGTCACA	179.921241740619	0.28502380349327
GGTCAGTCAC	180.011400421813	0.370111636497186
ATGAGTAACT	180.105588456836	0.338829099434094
TCAGTCACAC	180.12179530582	0.241762469359293
TGTGTGTCAC	181.219763711742	0.339384703722379
AATGACTAAG	181.839087364257	0.997685123337778
CTATGACTAC	181.878763390716	0.191684231541016
CATCCGTCAT	182.009251519189	0.954033375868357
GAATGACTGA	182.312703577915	0.182367889252035
TATTACTCAG	182.612808768269	0.221316828033671
TATGACTACG	182.772691640071	0.177881818129283
GTGACGTAAC	182.963214391701	0.249708276830731

AGAGTCATCT	183.046311561706	0.139872161417764
GAGTCATTGC	183.08887522665	0.231223749822396
TGGTGACTAA	183.358300061132	0.388681215428246
ATGACTGGTC	183.367686955056	0.25858908493366
TAGTCATACA	183.475040941052	0.21833337979454
TGTTACTCAC	183.692980319339	0.17544557329705
CACTGACTCA	183.699805737099	1.00561510441079
CGAGTCATCG	183.778856755	0.349439454514817
GGTGCGTCAT	183.963317038122	0.168342196994321
AAATCAGTCA	184.043727310844	0.334242005939936
GATCAGTCAG	184.090446117289	0.194038162884496
ATGACGCAGA	184.170118445401	0.370210163905446
CGAGTCATCA	184.273308404136	0.273049353390344
ATGACTCCCT	184.328306550845	0.28531763593567
ACAGTCATCG	184.431991216476	0.4057395634311
GGATGACGCA	184.550465384159	0.300063337610247
TGATGACGCA	185.060860292913	0.342230588705011
GTTGACTCAA	185.367798212242	0.430106953020818
TTAGTCACAT	185.377222123601	0.242531912451515
CGATTACTCA	185.846853398015	0.387608290395205
ATGACTCCCA	186.148234340533	0.370595873088452
TAGAGTCACT	186.247211913711	0.209750016063976
TATGAGCAAT	186.665155665713	0.245174885722763
AACACGTCAC	186.68960832029	0.237800091112224
GTGACGCAAC	186.775917613774	0.357113517052548
ATGACGTATC	186.889356752578	0.322671703454049
AAATGACTGA	187.077207259739	0.181067381077181
GAGTCATTGA	187.132220467011	0.449978748302565
TATGAGTAAG	187.679654923634	0.186826071437123
ACAGTCATAA	187.727112121158	0.209640301419132
ATGACCCATA	188.148777416055	0.20663668473737
TATGACGGAT	188.609476973411	0.222954191329662
CTGAGTCAA	188.78072918282	0.56333531300971
TATGACTTAA	188.814272575664	0.199308678481031
TGACTCAAAG	189.066280068916	0.641312987969594
CATGACACAT	189.216827693962	0.376477047351873
TAGTCATAAC	189.306914069319	0.225759442567345
TAGTGACTAA	189.396347995232	0.289062136165547
GTACAGTCAT	190.429558284427	0.292343342670186
ATGAGTCGAT	190.657640387718	0.157223179827672
ATGACTTATT	190.709989411084	0.36269873489929
GGTGTGTCAC	191.332178862687	0.172219704671628
GAATCAGTCA	191.874946084536	0.442008178189714
GAGTCATTGG	191.911267756162	0.448111031265607
ATATAGTCAC	191.989005275153	0.227855038108338
CTATGAGTAA	192.433030905557	0.233952369016884
TGGAGTCACC	192.923133694307	0.209948943433726
AGTGCATCAT	193.226519324401	0.144974723398164
TGGAGTCACA	193.480065927125	0.198209646265679
GGTGTGTCAT	193.786635310708	0.250238039794823
ATGACGTATA	194.134116112218	0.303390426535641
ATGTGTCACG	194.178060919912	0.173427341303083
TAATGACTCC	194.496843068731	0.319015660631904
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GAGTCATCCT	195.220661723092	0.197400416145148
GATGACTGCT	195.352263813105	0.248492782676988
AAGAGTCAAA	195.375947342386	0.235659497267434
ATGACTACAT	195.393797309492	0.315577312460692
ATGACGGATT	195.63131616534	0.17303745609065
GAGTGACTAA	195.642104678995	0.227281805208249
GGGAGTCACC	195.944871292707	0.20287553310994
GGATGAGTAA	196.074870409853	0.208861054873564
CAGTCATAAT	196.991094385123	0.30712414102344
GAGTCACCGT	197.158995044454	0.416618936245988
GTCTGACTAA	197.826548957928	0.226997491586664
GATGAGTAAG	198.246277685932	0.183400758508668
CCAGTCATCT	198.471564290205	1.34591379148477
TGTTAGTCAG	198.476105951779	0.323223108401263
GATGACACAG	199.157446717334	0.250177456578969
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GAATGAGTAA	199.85531495163	0.231494272891786
CAATGACTGA	200.153233926005	0.258710040837468
AATGTGTCAG	200.617373699444	0.104478517538699
GAAGACTCAC	200.632704892733	0.199671024536902
GTGAGTAAAC	200.682312743186	0.0848798251899304
ATATGACTGA	201.077787315247	0.553963069189051
TGTGATTCAC	201.261252797061	0.184092867259262
TAATGACTGA	201.46263332729	0.175539501993253
CTAGTCATAG	201.658706054516	0.129314932251665
GATGACTGCA	201.802363511107	0.222930564633466
TGTGACCAAT	201.995837323455	0.287075773355158
TATGACGTAA	202.502131368731	0.0680665746240258
GTGTGACGCA	202.647115898356	0.210581974302025
GGATGACTCG	202.683569704907	0.104579166287103
TTATTACTCA	203.203701150202	0.182207336818943
CATTACTCAC	203.396586039402	0.150876901268357
GACAGTCATA	203.438015535876	0.533579749014732
AGAGTCACAC	203.52104624262	0.396700391039673
AAGACTCATG	203.724181321116	0.148379370645816
TCGTGACTAA	203.767957370238	0.282557370991769
ATGACACAAC	204.096267255147	0.240825355327279
AGTGACTAAG	204.124606610548	0.204140511087213
ATGACAAATT	204.241598930844	0.369144513700618
ATGACGAAAC	204.472029668111	1.15058508892635
ATGACTCCAC	204.534463607402	0.276805841537726
ACGAGTCACA	205.088794697889	0.458198226733253
CCTGACTCAG	205.395457533301	0.951215005972953
CGAGAGTCAT	205.508819484112	0.414954143166637
ATGAGTCGTT	205.801661121069	0.154075558317062
AAGGAGTCAC	205.831618104953	0.262901404400505
CGTCAGTCAC	206.057508439847	0.0704647695065104
ATGACTAGTT	206.126013050874	0.287270991102828
ACAGTCATAT	206.20948741555	0.143589386775098
GGAGTCACAG	206.307749080486	0.294325980689044
GTAGACTCAT	206.568932637689	0.194753258892798
GAGTCACAGC	206.573318938152	0.156726742379032
GGAGTCACCG	206.626773572645	0.296684638326634
ATGATTCACC	207.059926338139	0.166744792954587

GTGATTCACC	207.07120636061	0.261529214481507
TAGTCATCGA	207.108230607841	0.245607339630533
CGAGTCATTC	207.390942837953	0.17542302627845
CATAGTCATA	207.399863772007	0.206186033572109
AATGACTACA	207.508296568837	0.290267272490887
ATAGTCATCG	208.05973751318	0.133440513569059
TAGTCATATT	208.06742150801	0.244012606247366
GTGACGTATT	208.210957542191	0.206629125153357
ATGACAAATA	208.458044079416	0.322721044183573
CAATGACTCT	208.469195192476	0.053619219876647
AACAGTCATC	208.618733757393	0.542591805079238
GGTGACGCAC	208.620299917555	0.1430604605258
ATATGACGCA	209.067464227553	0.200037054543768
TATGACGTCA	209.114256553283	0.0721159290203415
AGATGAGTAA	209.131863726573	0.24361048611888
CTAGTCATCG	209.566102488547	0.42643982398706
GAAATGACTC	209.89972906228	0.140037019381258
GGTGATTCAC	210.520326665649	0.32627375926955
GAGTCATCTC	210.606812680233	0.37318642753931
GATGACGTAA	210.677526773022	0.248528985354804
TAGTCATCGT	210.970857416354	0.281746628051478
AAAGACTCAC	211.112796174711	0.268529772167233
AATAGTCACC	211.823328378749	0.189586366458361
TATGACTAGA	211.887598821243	0.256457379694322
GTATAGTCAC	212.165433448539	0.251396569680567
TTATGAGTAA	212.445190459653	0.123164590734355
GAACAGTCAC	212.620399251111	0.438467001255561
ATGAGCAATA	212.774194389785	0.286552449797831
GTGTGTCATG	213.125861559195	0.122590794429482
AGAGTCACAA	213.157284631209	0.0897334178187588
ATGACTCCAT	213.245317111702	0.394460264615293
GTGACGTATC	213.338312049661	0.19172096122394
ATGACCAATT	213.544837634163	0.421385060243666
ATGAATCATG	213.822334563179	0.361498680674667
TACACGTCAC	213.839719007036	0.184294575207983
ATGACAGATT	214.131127943233	0.272060272647522
GAATGACACA	214.304187780986	0.250382138797186
TCCTGAGTCA	214.377091803018	0.134727675936202
AATAGTCAGA	215.177479680599	0.178210391280184
TAGTCATAGG	215.198876294574	0.207652131433816
GCGTGACTAA	215.74176048502	0.526474958842767
ATATGACACA	215.943935941082	0.279894503620032
TAGTCATGAG	216.128785404626	0.786054386279467
AAATGTGTCA	216.277002294547	0.268182093505158
GAATGACTCT	216.345143110684	0.400577649211236
GAGTCACAGT	216.439653911576	0.318004254812873
TATGACACGT	216.469997143716	0.268369632613884
AATGACTCGC	216.491759958821	0.346458193067646
GTGCGTCATG	216.686534678988	0.21198188522479
ATGACTTATA	216.801517939454	0.261617239698691
CAGAGTCACA	216.889533198374	0.384062791630091
GAGTCATCAC	217.184192271249	0.792472358711957
ATGTAGTCAC	217.21185675769	0.194789839649692
GTGTTAGTCA	217.859109643281	0.15307047406491

GAGTCACAAT	218.166865414867	0.302836039265969
TTATAGTCAC	218.227244824199	0.138293591728771
TATAGTCATC	218.642150747188	0.340701810769482
GGTGACCAAT	218.822543684046	0.149310453455114
ATACAGTCAT	218.901155861371	0.307779641493958
ATTAGTCAGG	218.957916745064	0.897190346555814
GCAGAGTCAT	219.003170389743	0.225107936815197
GAGTCACACG	219.148757926833	0.224863745457193
CTGACTGATA	219.594793411981	0.30164604451994
TGCATGACTC	219.88775808583	0.61724033522485
TACAGTCATC	220.555571304199	0.277070921482207
ATGACAAATC	220.615761377626	0.329709856697132
GATTACTAAT	220.684755128643	0.443413530644085
GTGACGCACA	220.850831387239	0.294805108357478
TGTGACTTAT	221.012455351201	0.199399466736938
CTGACTAAAT	221.035664319476	0.277937430767366
ACCACGTCAC	221.977800747706	0.237687557311918
ATATTACTCA	222.426471851539	0.109598962632654
ATGAGCCATA	222.673663473466	0.192688576767404
TTAATGACTC	222.691070461008	0.255395039368833
GGAGTCACAA	223.134598657463	0.278520328280013
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GATGACGTCA	223.264971447247	0.125921547559239
AGATGACACA	223.622112079747	0.100581188137495
AGTCATACTC	223.664895559708	0.0843905966853558
AAATGAGTAA	223.80771460645	0.201895606732036
TGAGAGTCAT	223.896488519118	0.178484815509836
GCAAGTCATC	223.952976655344	0.357617138549974
GTAATGACTC	224.13299107258	0.240959123229623
AAAAGAGTCA	224.136744824624	0.237875545156301
ATGACATCAC	224.178987527197	0.379307623428957
ACGTGACTAA	224.603365980603	0.249750344983027
ATGAGTCGTC	224.859946032648	0.534022787323033
AGGATGACTA	225.273914275736	0.204263400506672
TCGGAGTCAC	225.454255304842	0.178522660820951
TAATGACGCA	225.49044268544	0.353395538231774
GAGTCATGAC	225.506128517128	0.135119690580358
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AATAGTCACA	226.240624694446	0.285970663288951
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TGGATGACTA	226.412426148157	0.203548831848165
ATGACACATG	226.685129363625	0.649640383696037
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TCAGTCACAT	226.908226404809	0.216181364639945
CATGACTCCT	226.947326863821	0.169938908008736
AGAGTCACAG	226.996297094129	0.110028726484407
TAAGAGTCAA	227.068234642605	0.281350954859802
TAATGACTCG	227.182066342144	0.348581764555263
AGTGTGTCAC	227.210379596273	0.279045672563798
GAGTCACATA	227.321879402671	0.430556542055093
AAAATGACTC	227.671783632702	0.295996594112736
CAGTCATCGG	227.807040040269	0.078408944725677

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AATGACTGAA	228.061666934891	0.840112007440873
TGGTGACTGA	228.446923083244	0.351866603139603
TATGACTAGG	228.577632428374	0.182543685112163
AATGACTACT	228.724663546709	0.1954820131483
GGAGTCACAT	229.467982040571	0.217267537635263
AAATGACTCT	229.951817424228	0.560371282973742
TGATGAGTAA	229.955706747602	0.255025452787229
CCATGACTAA	229.98166963517	0.536062222169858
GTGACGCACC	230.030759638819	0.225051532919221
AATTCGTCAC	230.302689558939	0.233099055621881
ATGATGACTA	230.308792378523	0.164212371064658
TTGACTCAAA	231.076683929556	0.350456725317466
AGTGATTCAT	231.099457264211	0.145504954137631
CAGTGACTAA	231.242833247526	0.678632220654086
ATGACGCAGC	231.500207553402	0.289045770106809
GAGTCACCAC	232.135718473753	0.247179621487596
TGTAGTCACA	232.265323847649	0.17109125619293
TGATGTGTCA	232.397838033944	0.395018902927418
TTATGACTAG	232.627456672143	0.210422767339936
GAGTCACAAA	232.652105955367	0.103448445012166
AAAGTGTCAT	233.441147243141	0.161469776598656
TATGACGTAC	233.476656337261	0.250115649322346
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CTCTGACTAA	233.949598192122	0.705729497476849
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ACGCGTCATA	234.376286641403	0.195385717576602
CCAGTCATAG	234.853406622517	0.350717315507852
ATGACTCCAA	234.983262084778	0.334999357003952
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CTGACTAACT	235.173913845648	0.265548587549041
GCATGACTCC	235.233890983561	0.248945704814106
TGTGTCACAC	235.981478249553	0.178154598892953
TCTGACTAAG	236.335961467159	0.323469336473952
CGATGTGTCA	236.460070805492	0.153155515291739
AGAATGACTA	236.675997748548	0.227513636805282
CGGTGACTGA	236.857785849782	0.195616096922525
GTGACTTATT	237.013485168425	0.409617081079179
AATGAGTAA	237.278010350569	0.0785613716422215
AACAGTCATT	237.42538253519	0.226851560243352
ATGACTACAA	237.506803688634	0.247946257468291
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AAATGACACA	238.104419047243	0.154625429958911
ATGAGCAATC	238.172477930488	0.321225244460095
ATGACATATT	238.291661708263	0.365999658404378
CACAGTCATC	238.315834176833	0.281729942671312
CTATTACTCA	238.444111638724	0.208240692081897
TAGTCATAAG	238.714985126491	0.261167351871865
GGATGACTCC	239.247002428267	0.957705272668936
TAGTCATCGC	239.249276580278	0.161253484392848
TAGTGTCATA	239.315560260485	0.207684944346778

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AGATGACGCA	239.763271769451	0.699025415577803
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CTGACTGAAT	240.348781795024	0.282914600403859
GAGTCATCTG	240.533668969709	0.222835670807422
CGGTGACACA	240.647911291731	0.246336247873918
GTATGACTTA	241.026892654371	0.156600096204339
CAATCAGTCA	241.310662218811	0.247257341007939
AAAATGACTA	241.321147158594	0.22178612018773
TAACAGTCAC	241.382339335351	0.293196849714286
GAGTCATGAT	241.501998854094	0.236440756555956
GAGTCACATT	241.973508834457	0.57727194150204
ATGACCCATT	242.418650194745	0.280228298678866
ATGACGCAGT	242.587689311889	0.253028393696384
ACAGTCATAC	242.706789908449	0.708202351203021
TAGTCACACT	242.828728511591	0.216112588882848
TAAGTGTCAT	243.079223295278	0.26201381401161
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AGTCATACAT	244.321785113358	0.394971347065278
AACAGTCACA	244.712881153843	0.137492242005816
TGATCAGTCA	244.734225071748	0.358355196324313
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ATAGTCATAG	246.13197416285	0.124762936171655
TCATGACTGA	246.333323577751	0.494176745071258
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AAGTATGACT	246.666286993275	0.252930399155629
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TCCAGTCATA	249.438662355531	0.220108578048354
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AGTCATCGTT	250.019079457417	0.355111510044242
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GTGGAGTCAC	250.703196183454	0.252252000986625
GTATGTGTCA	250.811645944334	0.102204277952607
GTATGACGAA	251.620192983021	0.293912528328537
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GGATTACTCA	252.476860486185	0.24800228051196
ATGACCAATA	252.480926211456	0.312070006640725
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TATGACCAAA	253.820361240758	0.248194579605253
ACTGACTAAC	253.908073724822	0.238913923367752
TAATGACACA	254.15734174636	0.340210992341079
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AAGTGTCATT	254.84418373433	0.242572501532864
ATGAGTACAA	255.489823212475	0.202219122553159
ATGACCCATC	255.549122878258	0.18099568071042
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ATGTTAGTCA	255.666126858739	0.258644788370451
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TATGAGTAAA	256.411146137282	0.215199732784804
GAGTCACAAC	256.816659430024	0.377469984573227
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GCGACTCATA	257.573737158236	0.25975837945868
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CAGTCATAGT	258.548742008195	0.394193592147822
GTGAGTAACT	258.57374989123	0.236795935244062
AGTGACGCAC	258.697595040135	0.346745234899911
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AAGGGTCATA	258.984758100032	0.204855564727984
GATGACTAGA	259.147922760865	0.225141548795939
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AATGACTTAT	259.818028537632	0.367645083172177
CATTAGTCAA	259.95697038597	0.107654956897375
ATGACTCCCC	260.645364867786	0.230095241837115
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GATGTGTGAG	260.706984216746	0.107880599938434
GGAGTCATGA	260.84656706352	0.289839897248974
TGTGACGTAT	260.909708101861	0.44864526157529
GTGTCATACT	260.999130171529	0.263847983223316
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GAGTCACATG	261.117470909512	0.366691048685824
CGAGTCATAC	261.265227237928	0.832624534751888
GAGTCACCAA	261.304855430225	0.141484056931096
GATGACAAAT	261.355874181012	0.0885990627546951
AGTCATACTA	261.440091043521	0.214920418675429
GACATGACTC	261.658256849608	0.318196570065179
GAGAGTCACC	261.689121329888	0.305513259069998
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TAGACTCATA	262.981825606861	0.181377355826683
GATCCGTCAT	263.099647359749	0.197339328391058
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GTCGACTCAC	265.179409140545	0.258281050358656
GCTGACTGAT	265.422948740702	0.392517844426329
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AAATTACTCA	265.866926619957	0.181329750354135
TGATGACTAC	265.984375169664	0.237972978887292
GGTGACTGAA	266.094116142325	0.219984483039516
GATTCGTCAC	266.490788444571	0.27209450920612
ATGAATCAGA	266.894167329374	0.214958949302385
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CAGTCATAGG	268.294906233841	0.181721049081174
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GCGTCATACT	269.62752465952	0.21100699998949
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CAGTCATATT	272.27472243907	0.285638296017597
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ATACAGTCAC	275.256896947918	0.225114066763845
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AGTCATAGCA	276.081374024395	0.160752910776603
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GAAAGAGTCA	277.536429374747	0.150309242968025
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GGAGTCACCA	278.001088196359	0.545421397911666
AAAGTGACTC	278.103111994544	0.219563788610808
GAGTCACCAG	278.30672854121	0.666884844916752
GTGTCATAAT	278.385666467276	0.192521658300872
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TACAGTCATT	279.014504165347	0.299713076125261
ACATGACTGA	279.220879394814	0.15740658123905
GTATGATTC	279.28892139412	0.22954771773834
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GTATGACCAA	279.893872295289	0.247073421292555
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GTGACCAATT	279.9746506215	0.193174646201499
GAATGACTAG	280.421518054876	0.235040337874482
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ACCTGAGTCA	280.57943952225	0.801281688284087
CGCTGACTAA	280.693457337808	0.281077739530068
ACATGACTCC	281.067506407834	0.396184254475755
AAGAGTCAAG	281.261523251223	0.184674505784209
CGAGTCATCT	281.284742534738	0.14136320246688
GTAGTCATAT	281.429361603633	0.507084832383606
AGTCATAGTT	281.975510764581	0.12732169047461
AGAGTCACCG	282.053748559719	0.4097713291903
TGTGAGTAAC	283.110667892703	0.284734603704842
AAAGTGTCAC	283.12042731657	0.269460304554212
GATGAGTCGT	283.488070226855	0.167362890243441
ATGACTAGTA	284.137249173463	0.250207466969506
CGTCAGTCAT	284.219408065841	0.786728906536093
GCATGACTCT	284.668983194434	0.14777999726637
AGTAGTCACC	284.737871810396	0.165496993000242
TGAATGACTA	284.814337537019	0.398867806539873
ATGGAGTCAC	285.591998207615	0.407832742780557
ATGACCAATC	285.62672282419	0.238775344732049
CTATGTGTCA	285.941967563985	0.144638927555157
GAATTACTCA	286.154079479874	0.324581584740716
TAGTCATAAA	286.357206277052	0.343834324206256
GTGACGTATA	286.482730537319	0.380160977955679
AGTCATAATC	286.65470290368	0.258995099455864
GTGACTGAGC	286.703486598314	0.274327256553035
GTAGTCACAC	286.777030519355	0.269499465360347
AGATGACTAC	286.87238253083	0.12876779117665
ATGACTTAAT	286.88524538441	0.265961950157418
AAGACTAATC	286.949180583515	0.283688625136383
GAGTCACAGA	287.081041023302	0.325861812720586
GAGTCACCAT	287.311075745628	0.449950367001395
ATGACTACTA	287.403745725567	0.105217813371481

GATGACGGAT	287.48369461348	0.226646414675663
CGCATGACTC	287.889591099566	0.361043671287275
AACCAGTCAC	288.218072157128	0.213458141646939
ACAGTCACAC	288.381213194081	0.199161213268881
GTGACTGAGT	288.968694283634	0.239983321267912
GAGTCACCTA	288.991266413738	0.558896696181278
TGGTTAGTCA	289.161532510865	0.11121314239433
AGATTACTCA	289.430729666426	0.1923979407729
AGTCATACAG	289.550260739884	0.184463398784477
ACGAGTCACT	289.615632544932	0.289199209671366
CAGTCATACG	289.868971842259	0.17707982677309
ATGAGTACAT	289.991708509668	0.464344355151185
GCGACTCATC	290.14705121817	0.14186022696638
TTCAGTCACA	290.564886014313	0.652134627364627
ATGACAGATC	290.586581074076	0.317930025466128
AGGAGTCAGA	290.996292069857	0.211572720779047
ATAATGACTC	291.017298731021	0.519609769617369
GTGACGAAA	291.157993583308	0.307024136376434
AGTCATACCG	291.383811353577	0.256217553694203
AATGACCAAT	291.461718631598	0.516398327881924
TAATCAGTCA	291.584327877864	0.286800776202607
GAGTCACCCA	291.732868986409	0.235722584107617
TAGACTCATC	291.818652874787	0.26034255938898
GTGACGCACT	291.863405647196	0.381687288911265
TTGGAGTCAC	292.063590566283	0.502359295141715
TATGACATCA	292.069867065154	0.346697234967296
GAGTCACCGA	292.210271445457	0.42844924546779
AGTCATAGTC	292.591892629063	0.26321318171696
TCATAGTCAT	292.90040010631	0.239845045048548
GTGACCAATC	292.948269534978	0.334781013598109
CGCAGTCATA	293.626004355483	0.243955761010667
TATGACCGAT	293.735373895343	0.173271122026038
TAGTCATTGT	293.891429127529	0.329665819610887
TACGACTCAC	293.958982222483	0.171289700507291
AATAGTCATG	293.986199923437	0.381022800531081
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GTGTGCTACT	294.34497009659	0.41586957768524
CATGACTCCG	294.372338752914	0.167175700755459
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TCGAGTCAGA	294.767316475893	0.362081314347099
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ATGACGCAAC	295.713196726606	0.688383790043147
AGTCATCGGT	296.248156596094	0.231206394139335
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AGTCATACAC	296.280400351767	0.238157241979623
ACGACTCATA	296.354212873225	0.257665671582065

AGTCATAACT	296.788142833846	0.169197190426533
AGGGAGTCAC	296.895290019781	0.197489338031039
ATGTGTCAGC	297.413793305133	0.569854393875443
TATGACGTGG	297.521233730771	0.287985364784811
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AAGGGTCATC	297.823518116689	0.179746208182148
CTATGACTTA	297.929472223962	0.24972304197581
AGTGTCCATC	297.983351317319	0.151993332898299
ATGACTGCAT	298.043550521366	0.384184433239749
GATGACATAT	298.330202093896	0.313046316424739
CAGTATGACT	298.569519661041	0.162987027674664
TGGTGACGCA	298.583752893081	0.171997959987127
AATGCGTCAG	299.154914977255	0.263080101404249
ATGACGCGTG	299.358895133305	1.22787387834628
GAGTCAGACT	299.365476442622	0.167008465699684
AGTCATCGAT	299.382140286186	0.225255764109434
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GACAGTCATC	299.764287876468	0.159268659830779
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AAGACTAATT	300.041567245967	0.229875430228786
AGTCATATCG	300.452054357739	0.223489725976105
AAGTGTCCACC	300.580626153527	0.158053202514906
AGTCATTCTT	300.710310173394	0.878350153871082
GTATCAGTCA	300.793982640024	0.344298937668813
TAGAGTCAGC	300.990256608269	0.425103307840893
AGTCATACAA	301.138058852856	0.170745092942991
TATGACGGAA	301.372987185434	0.319587634502029
AACTAGTCAC	301.673405983545	0.246611313206012
GTGATTCACT	301.774809682893	0.154738438432758
CAATTACTCA	301.856102465556	0.304374031310283
AGAGTGACTC	301.93313518294	0.342463664465745
TCGACTCATA	301.992974540735	0.312365364788368
CTGATGACTA	302.001777294784	0.0641445211246273
AGTAGAGTCA	302.073694015349	1.13545273130556
AGCGTCATAC	302.147125700876	0.225123028452611
TGTGACCCAT	302.231054805939	0.254722673644897
GTGACTGAGA	302.304765199805	0.179284157274334
GTGACAAATT	302.677120143818	0.262011540906453
GAGTCATGAA	302.689019750667	0.240011330232037
CGATCAGTCA	302.784142110129	0.196538009012346
ACTGACTGAT	302.969256232013	0.38966294112706
GTTACTCACC	302.985607544126	0.20777497978529
AATGACACAG	303.296231577283	0.703557007961411
ATGACGCGTA	303.445270424077	0.130447965547786
TATGATTCAG	303.480211838997	0.249317192886511
AGTAGTCACA	303.533630882524	0.298735616996146
AGTCATCGTC	303.616869038247	0.263659621094141
CATGACTGAA	303.629337756161	0.183821728491718
GATGAGCAAT	303.770197538687	0.321001418821169
ACCATGACTC	303.901450354033	0.241068658766422
AGTCATACCT	303.907484809455	0.264214832968586
AGTCATCGAA	304.409607604238	0.238728169914375
AGTCATCGCA	304.664332788083	0.164937383410428
CGATGCGTCA	304.669182315587	0.133067165855674

ATGACTACAC	304.68467071664	0.327169837011527
ATGACTGGTA	304.735591556097	0.391230300507656
TAATGAGTAA	304.776192361891	0.126116328187388
TCGAGTCACT	304.980101243836	0.233958873355386
TAGTCATATA	305.185228863241	0.235933066102527
TTGATGACTA	305.288249849111	0.167002610924138
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GATGACGTGG	305.902182226782	0.229949163984972
ATAGACTCAC	305.928253052013	0.152527215045749
CGGTGACGCA	306.568037987841	0.249852836046819
TTTGACTCAA	306.818180214158	0.356250457273556
TGGTGTCATA	307.074889642317	0.276570971841087
ATGACAGATA	307.132964666581	0.365413071114866
CTGACGTCAC	307.269542318866	0.325911459107906
GAGTCACAGG	307.328690192461	0.117292630133937
CCATGACTCC	307.442696231097	0.114264976233225
TAATGTGTCA	307.632779237863	0.182507278648776
AAGTGTCACA	307.889955040516	0.246348942479934
TAGTCACACC	307.912317924383	0.207445409986359
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CAGTCATAAG	308.371017344908	0.220627797567434
AGGACTCATA	308.449650360569	0.16893356923224
CGACTCATAG	309.458661980268	0.218571717916054
AATGACGAAT	309.520432852587	0.231437216944201
ATAGAGTCAG	309.813085477743	0.20252121329492
GAGTGACTGA	310.033494094814	0.16492682002876
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TTATGTGTCA	310.224488750621	0.216937745289183
GTGACCCATT	310.738137352565	0.281241531806771
TGTAGTCAAC	310.876020970609	0.0810684139928606
GGACTCATAC	310.908226816631	0.0821150117151196
GTGACGCAGA	310.986860391628	0.308307822735139
AGTCATAATG	311.034613439118	0.238154351113594
GAAGACTCAT	311.277906943188	0.680242632775332
ATTACTCAGA	311.380330389918	0.131669920592529
TAAATGACTA	311.610482818908	0.325240727574852
GATTACTCAG	312.081147365284	0.696785795304561
GGGTGACACA	312.184465038071	0.153196271123184
CTCGAGTCAT	312.282352735246	0.751463800330428
AGTCATATTT	312.433315285468	0.248810900318564
CTGACTAAAC	312.629541115845	0.184567536272563
CGAGTCAGAG	312.764250654713	0.240781095374839
ACTATGACAC	313.057273022135	0.348167626985617
GGGTTAGTCA	313.114176535552	0.169048093615459
CAATAGTCAC	313.328798976713	0.259550743140549
ATGAGTAAGA	313.381889710664	0.323629119012727
TAGTCATATG	313.655690255249	0.666686395854284
CACAGTCATT	314.087265849917	0.0553257476598033
GATGACCCAC	314.438114671265	0.189634185954484
GTGTGAGTAA	314.46528454934	0.196902654404754
AATGACTAGG	314.603011647463	0.278708449804046
GGTGACCCAT	314.733737330094	0.39925786671278
GAGTCACACC	314.984516037272	0.51928784508274
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ATTACTAATC	315.776815097831	0.238645059789714
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AGTCATCGTG	316.490139376844	0.141070787982901
GCATGACTGA	316.538266308749	0.325685736385933
ATTCGTCACA	316.648935521842	0.53062707633037
GAAATGACTA	316.751202782112	0.255599109121811
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TAATGACTTA	317.899042021213	1.05951897557948
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AGTCATAGCT	318.017584619475	0.257928432105703
GTGACAAATA	318.105043587622	0.163249888393753
ATGACTCGCC	318.187607426936	0.317273798342701
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TCGAGTCACC	318.30478085362	0.730299725857008
GAGTCACAAG	318.339792886647	0.622848995152713
TGATGACTAT	318.523551292939	0.389602366785369
GAGTGACGCA	318.94934923292	0.194327195174505
ATGACACAAA	319.001437881633	0.31373772332015
CTATGACGAA	319.314178358425	0.25597719783346
TTAGAGTCAG	319.322516672775	0.30101695383461
CAATGTGTCA	319.507084846499	0.209992965942655
ATGACTAAAG	319.847421296654	0.702713864369551
CAGTCATCCT	319.906794633129	0.218710556135268
TCAGTGACTC	320.298541843015	0.321787612864705
GATGCGTCAG	320.451892785794	0.189689634813731
AGAGTCACCC	320.577752551784	0.407548001866378
AGTCATACGA	320.61023367502	0.0854392618999451
ATAGTGTCAT	321.6038935612	0.281310126757063
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TCCATGACTC	321.792607624546	0.226939558608095
ATGACATATC	322.110470461203	0.287938232197487
AGGTGTCATA	322.114082337507	0.193343207324493
CCTGACTGAT	322.138512486754	0.316468809228369
TATGAATCAG	322.339842670416	0.23892536129912
TATAGTCACA	322.467119612945	0.513570617823372
AGTCATAACA	322.57614958284	0.240452260315209
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GCATAGTCAT	322.784308366443	0.30077104115582
GAATGCGTCA	323.270131098178	0.288532485733319
GCACAGTCAC	323.661739597379	0.116755004073874
AAATGAGTCG	323.668851497219	0.184675818475226
CGATGATTCA	323.743366518655	0.0611978259494182
TGTGACGCAA	323.789997757636	0.66014164703151
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CATGACTTAT	324.169334305989	0.296646377436832
CGAGTCACAC	324.441043897018	0.786876280918215
GTGACACAAA	324.482118403391	0.243685605119992
TTCGACTCAC	324.53399283781	0.197009291726429
GGCGTCATAA	324.727958561461	1.17099581366446
AGATGACGTA	324.841905090561	0.175118581292594
TGAGAGTCAC	326.088209245092	0.333129417901655

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AGATGTGTCA	326.600138699845	0.211957753590378
TTACAGTCAT	326.859660429355	0.244445988159941
AGAGTCATCC	326.920498487247	1.15578320296846
GGTGACACAG	326.933237503195	0.0675066111632813
GGTGACGCAG	326.999933653065	0.184866977556365
GAGTCATCAA	327.25417446776	0.900987378924443
GTGACTTATA	327.275159342327	0.0641775560565229
GGATGCGTCA	327.534444514051	0.0274004149367868
GAGTCACCTT	327.674172837662	0.280289734055711
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ACATGTCATA	327.92261857285	0.176570422180459
AAGTTAGTCA	327.99872959837	0.193103566274565
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ATTACGTAAC	328.186350671344	0.252659455098918
ATGATTCACG	328.333516498463	0.272116071975338
GACCAGTCAC	328.384744267986	0.253109776524778
TTATCAGTCA	328.642406980591	0.190998557308051
CTATGACACC	328.93837949687	0.187458351047325
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CTATGACCAA	329.379144370198	0.17252978018074
CCAGTCATAC	329.486369009455	0.145662898861025
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GAATGAGTCG	329.997913495494	0.195211150229541
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CAGTCATCCA	332.125017100574	0.373008535208708
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GAGTCAGCGT	335.314497835214	1.07226168820156
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GCGAGTCACC	336.26322286375	0.306206213900251
GCCATGACTC	336.306405966965	0.133224310556398
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ATGACACGTA	337.082742244362	0.0851361078661871
ATGACACGTC	337.29993118916	0.208644941952704
ATGACGCAAA	337.39349806441	0.618992823566289
ATGACTACGG	337.665686073192	1.20718596206579
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CTAGTCACAC	338.085622904921	0.181793687854572
CAGTCATCCG	338.264174107154	0.0969835618043043
ATGCGTCAGT	338.310583792287	0.508314405618581
AACGTGACTC	338.480690084301	0.578754206838598
GATGACACCA	338.729333558115	0.174134328899936
GAGTCACCCT	338.828630763441	0.629544057464162
GAAGTGTCAT	338.992903268051	0.215502273521979
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AGTCATAACG	339.980047641737	0.0820844290458511
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AGGAGTCACG	340.227377754403	0.221674300030584
AGTCATATTG	340.573682586122	0.166873468565918
CGACTCATAA	340.727040369837	0.164680868743968
CGCGTCATAC	340.843694558275	0.271472386444713
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TGCTGACTAA	341.776433014381	0.44558478638322
GACTCATACC	342.194183133946	0.161603562200815
GTCGAGTCAG	342.64160146094	0.251438857952948
TGACGTCACA	342.76578684989	0.205775213263839
GACACGTCAG	342.809222185445	0.235250416103717
CTATGACAAA	343.143259694796	0.164678751054388
AGAGTCACCT	343.283495708416	0.624356848233254
TACATGACTC	343.376428472855	0.416103095040647
TATGACAAAC	343.5858024178	0.194794293469767
GTGACCCATC	343.745593144126	0.185436194515253
TATAGTCACC	344.153214362526	0.225883026382796
AATGACTAGT	344.163048477686	0.321391523435854
ACATAGTCAT	344.579103651295	0.3259318307657
GGTGACGCAA	345.044685267979	0.0822844986240396
AGTCATACCA	345.360530994387	0.178793806050691
TATGACTTAG	345.389985238757	0.387171348255684
GGGGAGTCAC	345.611400745657	0.229808026511431
ATCGACTCAC	345.620121294868	0.178536650282152
AGTCATAATA	345.831148665797	0.361708878507878
CCAGTCATAA	345.940850895304	0.345824383914016
TTGCAGTCAC	346.219868828175	0.256551147912599
AATGACTACG	346.266050881453	0.0873537283185282
AAGTATGACA	346.367302719467	0.182639885019603

GGTGACGTAT	346.444281006873	0.244338015156134
AGTCATAGGA	346.516070000995	0.21452257202586
GGTGACACAA	346.603292091297	0.390908501221524
AAATGACTAG	346.609541057332	0.212941628774935
AGAATGACTG	346.626365565394	0.220564618309656
CAGTCATTAG	346.70653579377	0.853391586473499
AATGACTGGT	346.898724315303	0.293848276905809
ATATGACTAG	346.920996955193	0.594551299398424
GCCTGAGTCA	347.003120265198	0.685245049076523
GTAATAGTCA	347.149642314848	0.156193338097473
GATGACTGGA	347.49089163806	0.18963194437354
AGTATGACTT	347.523816648748	0.292441301131828
GGTGACGTAA	347.609507107486	0.250905798783498
ATGACTACTT	347.935442610277	0.191860560351452
CGAGTCAGAC	347.986129223172	0.358101947195983
TAGTGACTCG	348.270099174126	0.266565777642675
CCGATGACAC	349.076210684819	0.195012857832828
ATGCAGTCAC	349.083444707678	0.263196438037715
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AGAGTACCA	349.94081907787	0.542335909083975
AAATGCGTCA	350.426090852172	0.183308724834971
TCGCGTCATA	351.807520927892	0.341848589899931
ATTGCTCAC	352.245271731558	0.245867095199116
TAATTACTCA	352.360404523466	0.290672549332831
GAGTCACATC	352.507813267952	0.294301524981491
GAGATGACTA	352.55708960643	0.207324172225436
AGTCATAGGC	352.825234140268	0.19661742176891
CAGAGTCATG	352.872289146571	0.108701570062005
GGTGTCATAC	353.037912667601	0.279220682502818
AATGACGTAC	353.282809546958	0.124168810203086
GATGACTATG	353.553160751849	0.333817276855947
GGAGTCAGAC	353.751905252345	0.127344093488462
ACAGTACCCG	354.305014177237	0.150080257508763
AGTATGACGA	354.526330787818	0.178918351698325
TCATGACACA	354.528268337774	0.335343288465853
ATGACACGTT	354.585017518632	0.241556020532234
GTATGACAGA	354.844392495061	0.227490596525597
AAGTCATCGG	355.149198115953	0.12540093180388
TATTGCTCAC	355.286325310547	0.142389790670358
TCTGACACAC	355.67924114432	0.219360388329856
GGTGACTTAT	355.721684934142	0.239019905460113
TGACGTCACC	356.049925650313	0.160561094489202
CGTGACTAAA	356.171914999722	0.434458118335477
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CTATGACGTG	357.985639612512	0.104876513181118
CAGTGTCATA	358.086946108589	0.188280651056226
GTATGACGTG	358.63980298854	0.154669844492727
AGTCATAGGT	358.675790997273	0.212193873512943
GTGTCATACA	358.9213634899	0.427308131554604
GTATGACATA	359.700477162411	0.220821822763035
CTGACTCAAG	359.735093381583	0.440782574826212
GTATGACGGA	359.908310996684	0.14447582647239
ACATGTCATC	359.996226037477	0.237914478115057
ATGACATATA	360.385029500257	0.068857137024251

TGATGACGAA	360.6473321996	0.188876408802891
ATGACATAAT	361.083204143133	0.300656820512451
TGAGTGACTC	361.198743767499	0.473281779012041
TAGTCACATT	361.600162827378	0.210215709048134
ATATCAGTCA	361.66574085265	0.178419962876488
GGATGTGTCA	361.757964553816	0.157838546628679
TCATGACGCA	361.848614204939	0.455848509400565
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TATGACGATT	362.243912775432	0.367119144730584
TTGTGTCA	362.27256932722	0.672758337650561
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GATGACGTAG	362.417977551245	0.148314240117292
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AACAGTCACT	362.616271902445	0.149765287507715
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GATGATTACAG	363.150259799284	0.221994373190334
CTGACTAAGA	363.473577192622	0.300136174835357
GTGACATATC	363.996682740677	0.143464438508318
AGCAGTCACA	364.36940288298	0.305461499519478
TTATGACAAA	364.562573088174	0.229090359816061
TACGTGACTC	364.666763359118	0.147605898745699
ATATGACTTA	364.719512114982	0.190533463932364
GTAGTACCG	364.824427291393	0.210928585809784
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TAGTCACCAC	365.009322709906	0.20802897177813
AAGTCATACA	365.168226668403	0.200823674328146
AGTCATGACT	365.658450908259	0.698342279940769
GATGACAGAT	365.723636736258	0.293109250942006
CGATGACACT	365.880732449094	0.176440102361424
ACGACTCACC	366.20736875519	0.164911643618258
ATCTGTCACA	366.428570018792	0.197825272363533
AATGACGTCA	366.550486148499	0.34815721981702
TAGTCACATA	366.67899012726	0.182445705777878
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CAGTCATCGT	366.841454893554	0.516942840302718
ATGACGCGTT	367.051733834745	0.428169864354467
TAGTCATTGC	367.222298087945	0.296133372600435
GATGAGTACA	367.261377029377	0.226997080108841
GATGACACCT	367.788968843271	0.213121714335731
AATCCGTCAC	368.130560113906	0.229199699737736
ATGACTGCTA	368.519880071016	0.39395384177664
GGATGACTAC	368.819078540304	0.142583688582725
AGTCATCAAG	369.281984908592	0.386102735675701
TGTTAGTCAA	369.318053122907	0.290977623562639
AAGACTCAGA	369.374439813321	0.203814452477868
AGTCATCGCG	369.437139738248	0.299496056365036
GACTAGTCAC	369.439380126241	0.216194571292909
TAGTGACTGA	369.55598900224	0.202124479885441
AGTGACGTAT	369.585128564927	0.275527213960724
TATGTGTCAA	369.936739752996	0.208570405508079
AGTCATAAAT	370.286067003728	0.141453782509227
AGGACTCATC	370.372019182705	0.142637313878443
GATGACGATT	370.848155361232	0.12635260257776
AACACGTCAG	371.271121511797	0.219238161814102

AAACGTCATA	371.62725046082	0.153660202189892
ACTAGTCACC	372.087412098416	0.252402593168343
TTATGACTTA	372.282145872486	0.216663279792066
CCTATGACAC	372.632846062361	0.139949490960015
TATGACTTAC	372.754306783699	0.213408931410314
CTCTGACGCA	372.760257056449	0.324300860702922
ATAGTCATAT	372.938630536815	0.295930918381358
GACGACTCAC	373.137929954474	0.216823895166008
AGTCATAGCC	373.348860245139	0.290804817796846
TTATGACCAA	373.546674973673	0.286877938271554
ATGTGACGCA	373.681972040775	0.328688107899862
TAAGGGTCAT	373.79666545275	0.252758274833724
GAATGACGTA	374.096016275981	0.193787878419531
ATATGATTCA	374.125970035459	0.258004657746473
AGTCATCGAG	374.198437552953	0.201004597654934
AGTCATCATT	374.463425921342	0.164602815885397
GTGACTTATC	374.742304854919	0.18296264530869
TGATGACTTA	374.760209869333	0.047146812767682
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GTAGACTCAC	374.967874379855	0.198529285373504
CGATGACAAA	375.00475633843	0.259610518604529
ATGACATAAC	375.058738884896	0.238756843755892
TGCAGTCACC	375.110484783058	0.197839973743133
GTAAGACTCA	375.237572539882	0.183464256084766
GATGACGCTT	375.419866574087	0.176279559039966
GCGTCATACA	375.568503791794	0.0671736765817357
CAGTCATCAC	375.662364842628	0.132027691694419
GGTGAGTAAA	375.95839468866	0.182434972354443
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ATAGTGACTC	376.271992874117	0.652558941507798
AACAGTCAGA	376.451468669573	0.250601400926335
CAGTCACACT	376.804673962885	0.235045434163152
GATGACTATC	377.16368688141	0.253676825193923
ACGATGACAC	377.219357037894	0.486652906431394
AATACTCATA	377.64679735031	0.211865840005436
TAGTCATATC	377.667896584723	0.347688938515787
ACACGTCATG	377.977847042079	0.229219700968785
CCAGTCATAT	378.343777479488	0.173505418192
TTACAGTCAC	378.364404343164	0.239919890108058
TTATGACGAA	378.81285323106	0.141229059264861
CTGACTAAGT	379.144295515	0.119585756953104
CATGACACAG	379.379856384226	0.277201497566559
ACAGTCATTG	379.607343908025	0.114025043808154
TAGTCACCGA	379.623506501748	0.272149403770731
AGTCATCACA	379.937781460087	0.101394722158051
GATGACTTAC	379.951648809505	0.155919769324581
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AGTGACGTAA	380.085715941319	0.129463437900507
GAAGTGACTC	380.194653298268	0.109933692555781
GACTCATAAT	380.304963966772	0.0756757036576978
AATTGCTCAC	380.327114492022	0.376796317059217
AATGAGTACA	380.75684262005	0.262861203240527
TAGTCATGAC	381.047765993311	0.210204361683074
CAATAGTCAT	381.644619218022	0.836904603352451

CACAGTCACA	381.66332161014	0.298132606272055
CCATGACACA	382.131549490442	0.110932339715886
TGATGATTCA	382.26833611186	0.351516557383201
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AGGTGAGTAA	382.338934195506	0.19843017921865
TGTGACGTAA	382.536138923178	0.275149201398423
AAGTCATCGT	382.717074336239	0.243009679155284
AGAGTCATGA	382.727734077689	0.200936318420221
TCACAGTCAT	382.768639933364	0.0606967299275908
GTGAATCAGA	383.130256671132	0.165117540130391
TGACTGAATT	383.691710239583	0.306477165021942
ATGCGTCAAC	383.695536894187	0.580434003585658
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AGTCATAACC	383.783379258329	0.156378008492351
TAGTGACGCA	384.004223376214	0.155136816726029
ATGACTCGCA	384.027626245788	0.7351522039867
CGATGACGTA	384.030082767191	0.372027488282527
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AGAGTCACTC	384.35638866265	0.118214278208516
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CAGTCATAAA	385.064016846321	0.155460335958415
AGTCATACGG	385.140330110862	0.168091877944183
GGGAGTCACT	385.325749204262	0.383734306099422
CAGTCATAAC	385.546749592412	0.705952833333461
ATGACTTAAC	385.682173721972	0.289930725207362
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ATGAATCAGC	386.058560044566	0.268327877980999
ATCGTGACTC	386.111354445418	0.240036014989268
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ATAGTCACAC	387.152328510333	0.161521103275543
AGTCATCAGA	387.22607039706	0.313025828739579
AGTCATCATA	387.551349817953	0.154223710522888
TATGACCAAG	387.598801838875	0.203919552113692
AAGAGTAATC	387.804787907945	0.244842951995946
AGTGAGTAAAC	387.898008202751	0.243570393855918
GCAAGTCATAA	388.734947410494	0.556149761787935
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CAGTCATACA	389.712508148279	0.597055661388728
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ACCAGTCACA	390.149526677045	0.329083156529927
AGTTAGTCAA	390.41987774773	0.352791776056988
GATGAGCCAT	390.516100341866	0.229007001720858

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TACTAGTCAC	390.878986750082	0.185909997301167
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GATGACTTAA	390.992338057265	0.436672442415012
CTGACTAAAA	391.149697714103	0.234597833125845
AAGTGACGCA	391.419237251989	0.107744220401277
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TAAGCGTCAT	391.984660317539	0.23586960836608
TATGACCACA	392.202035251422	0.212938258109692
TCTGACGCAC	392.271154771016	0.150372562972093
CGATGACGAA	392.615265176868	0.300106136778616
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GAGGAGTCAG	393.740587016321	0.146449673661348
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GATTGCTCAC	394.127210323515	0.120758352107995
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CAGTCATCTT	396.73877889774	0.253722637605123
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GAGTCACCCG	397.779609895711	0.416309151366812
AGTCATATTC	397.876456577333	0.134551893386013
CAGCGTCATA	398.080716242214	0.177443450717569
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ATGTGTCAGT	399.051812356514	0.70220112849045
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GCTATGACAC	399.369806227923	0.273846555473179
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GATGACGAAA	399.812945967942	0.157171371812802
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GACTCATCCT	401.967131563191	0.0895710564199502
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AGTCATCAAT	402.441296584053	0.642595956544337
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TAGTCATGCT	404.611216858981	0.226261922633001
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TAAGTGTCAC	404.970221799488	0.243570461844472
TATGACAAAAG	405.271304741783	0.19794131415506
GATGACCAAA	405.305356120772	0.257274372267829
CTATGCGTCA	405.563315976227	0.237038500356403
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GACTCATACA	405.616822064859	0.284424984713218
CGATGACGCT	405.6736580311	0.184782033999365
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TATGACACGA	406.707516815816	0.221224053719149
GAGTCAGAGT	407.071254612063	0.304335367379732
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AATGACGAAA	407.205237885777	0.117655676135143
GTGTCATACC	407.252093386378	0.172358014723451
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AAGAGTAATA	408.281296614885	0.196274952583348
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AGTCATCACT	408.974585054424	1.06472514368439
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ATAGTCATGC	409.803293404649	0.587584471147454
AAAATGAGTC	409.866836043439	0.170790365654587
GAGTGAGTAA	409.954485148713	0.225224235550599
ATGACGCCAC	410.077457629211	0.412322922479715
AGTCATAAGA	410.631941019605	0.257328427262426
GAGTCAGACC	410.662612438031	0.241341076591106

GAGTCAGAGA	411.104331178133	0.488569092348114
TATGACCCAA	411.577960134783	0.147685964538967
AAATGACGTA	411.727149295478	0.19086327361903
TATGACAAAA	412.029045254972	0.122633608049013
AATGACGTGG	412.189804667305	0.294162599228657
GAGTCAGAGC	412.340522696698	0.220240467362026
ATGAGTAAGT	412.360774136973	0.260892852058266
ACGTGACTGA	412.472731372527	0.318468498093955
GTATGAATCA	412.62626699916	0.29726228045678
GAGTCAGACA	413.483226138252	0.379919396434935
AATGAGCCAT	413.737075696227	0.214531968376397
AGTCATATAC	413.837801661268	0.246085699739506
AGTGACGCAA	414.046151540663	0.358603507016983
ATGACTACAG	414.192105901726	0.319684358796971
ATGACTACTC	414.214558820451	0.205552201928477
TAGTCATTAA	414.257825362471	0.212495033254804
CCCATGACTC	414.341780031392	0.318754723386288
CAGTGACTGA	414.719310636797	0.475144752584537
TATGACGATA	414.747963475915	0.162400818055294
CGGTGTCATA	414.772399191304	0.255529009934214
CAGTCATCAG	415.313989818196	0.174688073797684
ATCCGTCATT	415.479528070549	0.364617475795928
ATGACTGCAC	415.490905312502	0.25919184918351
AGATGACTAG	415.819409416781	0.445809575320675
AGTCATCAGT	416.04149793419	0.233999989585128
TAGTCATTAT	416.118136891064	0.172814872658217
GACTCATCGA	416.689148568139	0.166127016723556
GAGTGACTCC	416.835496067806	0.473565311064526
GTGACATATA	416.966665605688	0.174372199410846
GAAGTGTCAC	417.021555112428	0.155209149574848
GCGGAGTCAC	417.605756748921	0.215474788654571
AGTCATAAAC	417.7837252613	0.251703694511262
TATGACAACA	417.896231511726	0.288432579216415
GTGTGATTCA	417.944279243186	0.179098642810689
GATGACTTAG	418.062220194193	0.215948086138975
ATGACGGAAA	418.218952292745	0.216523422113518
CAGTCACACA	418.551537591209	0.232955727497735
TCGATGACAC	418.644872488666	0.173092065284005
AATCGAGTCA	418.894054125366	0.20571404970208
TGGAGTCACT	419.269769585662	0.263001470720273
AAATGACTGG	419.31547895641	0.21624895019356
AGTCATATAT	419.405434977032	0.506956276663175
TACCAGTCAC	419.539053997961	0.125815276738633
TATGACGAAC	419.699715903453	0.340938943494943
TCATAGTCAC	419.929884901987	0.293950086395028
ACAGTCACAA	420.194690449228	0.245091992324509
GGCCACGTCA	420.351111578001	0.222690343198127
CATGACCAAT	420.98558755614	0.263291661617774
CGAGTCACCT	421.174943833463	0.233991111416125
AGTCATAGTA	421.500287180415	0.204239817958622
AGTCATTGTC	421.763446178084	0.0831335195239352
CTGACTGACT	421.955169168788	0.250992598689688
AGTCATATCT	422.033337107616	0.283624364388943
TAAGACTCAG	422.49285688835	0.0630556695640576

CGTCGAGTCA	422.58683207175	0.187758110575872
TGATGACGTG	422.738934260137	0.201712871755092
CAAGATGACT	423.079293095547	0.265976813282973
GACTCATCGC	423.337413126133	0.149602837594639
TGATGACTGG	423.760319821891	0.165147825200111
TAGTGAGTAA	423.92832429277	0.229097726174907
GTAGTCACCA	424.017834770518	0.426339659762938
CGATGACTGG	424.334211488953	0.717876197770162
CCGACTCATA	424.335180677358	0.11382515991551
ATCCGTCACA	424.485712601365	0.184488598794058
AACAGTCATG	424.558920494676	0.553887504038267
AAATGATTCA	424.886598566413	0.230914341047733
AAAGCGTCAT	425.203558933679	0.150693248823238
AGTGTCATAA	425.283588885608	0.164004751236334
GTGAGTAAGA	425.429931943771	0.133580992961763
CGATGACCAA	425.603156261188	0.237652216845982
AATGACAGAT	426.495415634312	0.451111384612711
TGATGACGCT	426.641226489069	0.0634995400039012
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GACTCATCCA	427.285678965352	0.211696055893878
ACGTGACTCC	427.488358827953	0.527518335569346
AGTGAGTAAG	427.934178289381	0.205445862338196
GTGACGCAGC	428.618561136562	0.377433183470774
CGTGACTTAT	428.817597196682	0.13761647984475
AGTCATCATG	429.030560119418	0.149097407690806
GAGTCACCTC	429.163586007449	0.601032735122918
AGTGTCATCA	429.284903272407	0.100600130225537
CTCTTAGTCA	429.377896691343	0.276054190616056
GTAGGAGTCA	429.539223606029	0.168747856101864
ATGACTAGAC	429.666930590738	0.146394844415416
TGAGTGACTA	429.780678414916	0.146388580483067
TTATGACATA	429.925262384475	0.284176677023649
GTAGTCATGC	430.101113054039	0.413932099989411
ACAGTCACAT	430.165822466854	0.269103928342567
ATGACTCGCG	430.801461315101	0.575489098108728
GTGAATCAGC	431.042601825703	0.156914056188399
TGACATGACT	431.205058351291	0.096253784272519
GATGACATAA	431.429964484874	0.130504981683146
GCCAGTCATA	432.106992070601	0.49606376065024
GAATGACTAT	432.35128473571	0.22868814988948
ATGTGTAATC	432.382892455917	0.160704118181747
GATGACCGAT	432.572452457888	0.343961866229723
ATCGAGTCAG	433.155069351756	0.237719613031385
GAGTCACTGT	433.169660077221	0.295829582000427
TACAGTCACC	433.305113421267	0.21447873583976
AATATGACAC	433.316656625117	0.319043460592183
ATATGACCAA	433.389596076382	0.305286175499782
TGATGACACG	433.432009107234	0.0781412343457521
CTGTGTCACA	433.439029629359	0.262369278896425
GATCTGTAC	433.60631673349	0.332902521924509
TCACAGTCAC	433.728419361503	0.227092212051217
GCGCGTCATA	433.770489325366	0.0703277729103236
GGATGATTCA	434.390802733153	0.0881404628535482
GATCGAGTCA	434.638935031475	0.158495587130844

AGTCATTATA	434.748403312102	0.588152436930416
GACATGTCAT	434.752822523154	0.171375453661913
CGTGATTCAC	434.995970757461	0.467588924379204
TAGTATGACA	435.032289945286	0.227298512821995
CTGACTGAAC	435.186692176895	0.148379847961093
AACATGTCAT	436.500614005499	0.191341920523325
TGCTGACTCC	436.703834434263	0.0709563020361752
AATGACACAA	436.718490894336	0.4953949097831
AGTCATAAGT	436.722767831057	0.179465855652003
ACACGTCACC	436.91392704914	0.173585146517508
TGATGACAAA	437.009933140536	0.162684267979586
AATGACGCGT	437.114177175526	0.0834629329981674
GACTTAGTCA	437.189055679175	0.218375991299977
ACATGACACA	437.750497344489	0.113616226261097
GATGACCAAC	437.890801253805	0.218026800267422
CGAGTCACCG	438.122044699214	0.499896652597213
AATGAGCAAT	438.160382906085	0.268419465411964
TCTATGACAC	438.236578747417	0.159673467973998
CTATGAATCA	438.354028202367	0.277478716413386
GATGACATCA	438.579698472385	0.240311117237286
TGAATGAGTC	439.25836195325	0.270754226534189
AGTCATAAGC	439.656140274445	0.172899013507851
CTGTGAGTAA	439.940384014527	0.156763523129511
TAGTGTCATC	440.145867054348	0.255247632292818
AGATGACGTG	440.373924354448	0.166304515113145
AAGTCATAAC	440.63953845093	0.156262754823896
GACATGACTA	440.6687011914	0.582618174087491
ATGAGTAAGC	440.838893361517	0.301576911188734
TCTGACGCAA	441.549491520508	0.240681745141944
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ACTATGACAA	441.577958409951	0.341988221446331
AAATGACGCG	441.585286210619	0.17107621205431
GTGACGCACG	441.665035433497	0.400144066398616
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GGAGTCAGAA	442.007847916459	0.179137794739527
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TAATGACGTA	442.233824491124	0.218244375175888
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GAATGATTCA	443.06590678477	0.32791421600597
CAGTCATCTA	443.256912370216	0.298965084750133
ATCACTCATA	443.411433368412	0.186245249949847
CTCTGACACA	443.541830367953	0.346257790943469
GATTACGTCA	443.780462465577	0.389800572665078
TATGACAGAC	443.837679536791	0.112611355535758
AGTCATATTA	444.09027356938	0.207662606890698
CAATGAGTCG	445.103192949034	0.189818553856883
AAGTCATCGA	445.196560401965	0.302518436481318
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GAAATGACTG	445.270802406306	0.122410809094522
AATCACTCAT	445.329435976779	0.171260137525399
GGCATGACTC	445.599695997978	0.361343620627877
TGGACTCATA	445.838802770833	0.157110519842202
ATGACTAGAT	446.542010333565	0.16671091344958
ACACGTCACA	446.753255290111	0.181165774976362

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GATAGAGTCA	447.120870857912	0.222414043555384
GCGTGACTCT	447.487593266077	0.312113735473278
CAGTCATTGT	447.865309068171	0.307804466609208
CGATGACATA	448.078262069103	0.231507482622809
GGAATGACTG	448.245728271961	0.117542882477812
TAAGTGACTC	448.379028330017	0.227024236661551
AGTGACACAG	448.459165480988	0.133991874962043
CTATGACGGA	448.490698095346	0.26329975092942
GAGAGTCACT	448.615591502499	0.401734577899218
TTATGACGTG	449.217120400844	0.135424670219009
AGTCATATCA	449.234736067317	0.316036443742814
GAATGACGAA	449.538876092928	0.146283121875372
CGATGACACC	449.566074623191	0.400349784656706
ATTCGTCACC	449.578501337532	0.188482789843022
AAATAGTCAG	449.628142080847	0.212684798369222
GTTTCGAGTCA	449.720706112652	0.203843900548261
AGACTCATCC	449.732052417894	0.167870499308984
AGATGCGTCA	449.994927725363	0.17937048687073
TTAAGACTCA	450.171679753224	0.215799035076251
ATATGACAAA	450.217615587223	0.231053645415289
ATGACGGAAT	450.452166054223	0.219286731025424
CAGTCATATC	451.039652476139	0.717322475427164
GCAAGTCATCA	451.379844177236	0.0668232412941802
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CTTCGAGTCA	452.277740009955	0.153020136269311
TAGCAGTCAC	452.375747484042	0.268265772409221
GGATGACACC	452.460656744838	0.132959252141398
CGGTGACTAT	452.53444224667	0.489287078624624
CAATGACTAC	452.817966688218	0.380639337139428
GATCCGTCAC	453.002557009707	0.16581154219365
TAATGCGTCA	453.177277565768	0.197538803924322
ATTGCTCACA	453.475870785511	0.429188919473846
GGTGACTATG	453.480833954492	0.215910335940121
CAGTCATAGA	453.483211343264	0.48430778260902
CTGAGTCAAG	453.80958747402	0.417511619015459
GGTAGAGTCA	454.142035216025	0.0785619377162803
AATGACATAT	454.158174372075	0.455505455346908
CGAATGAGTC	454.210142224497	0.446777726676001
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ACCTAGTCAC	454.642971297369	0.184763045034644
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GATGACGCGG	455.109738532999	0.183282568742022
GCGTGACTGA	455.771575027166	0.402224533931904
CTATCAGTCA	455.938326358355	0.272923663346251
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AGTGTATAT	456.342981282381	0.286795062627327
GATGACGCGA	456.406235892069	0.194342072968898
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CACGTGACTC	456.657000937519	0.379999619072211
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CAGTGAGTAA	458.393365036757	0.205522916036705
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AAAACAGTCA	459.211189413383	0.212899148138809
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GAATGACTGC	460.782189350521	0.30187749925191
GATGACACCG	461.071714431667	0.226223974032365
TGTAGTCACT	461.24276640857	0.146528132303004
TACGAGTCAG	461.538547433095	0.192887965211791
TCGTGACTCG	461.59086524046	0.345072738995347
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TGTAGAGTCA	462.391640380134	0.0899600252816833
CTTGACTCAA	462.800137927012	0.281561062076537
AGTCATATAA	463.033209420113	0.117880065652382
TATCCGTCAT	463.147424706866	0.246411236269258
ATGACTTAAA	463.573784796213	0.220647584607518
AAGCGTCATT	463.590322668115	0.251257422897146
TGAATGACTG	463.771827923783	0.282360019369758
ATGACTGCTC	463.940810893404	0.191016275589644
ATGAGTAACG	464.34762947805	0.565328781362136
GGATGACGAA	464.433866720195	0.223374090208741
TAAATGAGTC	464.507480124506	0.203268679514273
ATTACTCAGT	464.814256116082	0.111689551959735
AAGTCATACG	465.203372468754	0.230889602170602
GATGACAACA	465.287407186885	0.168839213906704
ACGTGACACA	465.298746821869	0.365922158335278
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GATGACAAAG	465.636480018336	0.153409172532457
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GTGCAGTCAC	466.295632448846	0.300061584138961
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AGTGTCATCC	466.844341422699	0.175073672687259
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CAGTCATCGC	468.258781785186	0.197353765516334
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GGTGACAAAT	468.398106114784	0.329864065893516
AACGTGTCAC	468.451543727433	0.200460320243666
GGAATGAGTC	468.85102947053	0.258305525476366
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ATCCGTCACC	472.677372231018	0.193134246489051
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GAAATGAGTC	474.174918685215	0.177753549041343
GCAGTCATCT	474.38497364424	0.0779844918449545
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GAGTGACACA	476.775496415795	0.331985962868063
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GTATGACCCA	477.114387970289	0.317221489689489
ATGACCGATT	477.433751046173	0.296797349428742
TGACTAAACC	478.140714804276	0.143700978895113
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ACGTGTCACA	478.456620211378	0.325677763030533
TAAGATGACT	478.506067011732	0.24038781487426
TCAATGAGTC	478.720387650067	0.417439372833209
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CATGACCCAT	479.97900791161	0.244789009889136
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AGAATGACAC	481.218556840744	0.10952999032467
GACAGTCACC	481.647195808529	0.359812624057776
GATGACCACA	482.087275093999	0.141622934833755
GACTGACTAA	482.486028109326	0.354788714386767
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GCGTCATAAC	482.911220792335	0.25199278839277
ATGACTCCAG	482.957758204147	0.603999352751401
AGATGACGAA	483.119133650073	0.0907450547551331
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TAGTCATTAG	483.903407346521	0.13338394595914

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CGAGTCACCC	484.285342919883	0.25467113526684
GTAGTCACAT	485.292551046426	0.373040358065681
GTAGTGTCAT	485.309281498643	0.212788085385092
TATGACTTCA	485.560556763744	0.240228979322721
TATGACAACG	485.698651179028	0.261052354451673
TGATGACGCG	485.806190101586	0.222968918659628
GATGACAGAA	485.820880830935	0.212769031234882
AAGTCATTAA	485.889633066936	0.123204357531325
TTGTCATAAT	486.06490405027	0.161038271001388
TATGACACGC	486.469952758874	0.357374013697159
ACAGTCACAG	486.626367324238	0.266254700482736
AAGTCATATG	487.077460684534	0.198452478062777
TGGATGACAC	487.222432498248	0.124229125864957
GTAGTGACTC	487.249965694381	0.692601316093449
ACAGTCATGC	487.283962096512	0.193769078482328
AAGTCATCAA	487.794215580195	0.26710520041683
AAACGTCATC	487.86710960532	0.268643405626267
GAGTCAGCGG	488.04085043424	1.02524322289156
ATGACTACGA	488.163677434232	0.209144431794288
AGTCATAGGG	488.253197763624	0.144103520997871
AGAGTCAGAG	488.272001089525	0.0490765074530873
GCATGACACA	488.429791722397	0.266643126288336
GGGATGACTA	488.698545031046	0.256215351425302
CAATGACGTA	488.933255921657	0.188730816579094
AAGTAGTCAC	489.152046005867	0.16208113031523
GCGACTCACC	489.162519957429	0.189998611307854
TAGTCACATC	489.364079150592	0.332330751692784
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GCATAGTCAC	489.804196207202	0.168136315461531
ACGATGACGC	489.954840877544	0.260410444652679
TCGTGACACA	490.026874945425	0.470023428683215
AGGTATGACA	490.041502742481	0.17112267585993
CTGTAGTCAC	490.27886440938	0.160468528229759
AGACTCATAC	490.301212290357	0.29987259537375
CGGTGATTCA	490.417391345332	0.183109170053848
AGTCGAGTCA	490.445397130249	0.169813651619261
TAGTCACCAA	490.522424497305	0.323931877675065
ATAAATGACT	490.703352654344	0.21795026379394
GACTCATATA	490.743431496282	0.140155667924144
GACTCATCGT	490.990533819595	0.358384605542317
TTATGACAGA	491.001134797609	0.442633149663884
GTCTTAGTCA	491.024721575813	0.168319147466661
CTATGACAAAC	491.356807614984	0.15953910081719
ATGAGCCACA	491.502652153699	0.111966251991593
CTCGTGACTC	491.632061700592	0.420527853933672
GACTCATCAG	491.983824015292	0.233926051375588
TAGACTCACA	491.994272406222	0.176101213563612
ACGTCATACA	492.186887303495	0.34507553355905
AATGACATCA	492.190520871112	0.142851036649765
ATTACGCATA	492.474840295147	0.20787875263069
CCAATGAGTC	492.784065904489	0.23355848864605
ATAGCGTCAT	492.879823210997	0.304624826515028

GGATGACTGG	492.930442399987	0.115076718586457
CTATGACGAT	493.063344337231	0.15617173317429
AGTGTCATAG	493.533168099651	0.197742109007575
TATCTGTCAC	493.655569704471	0.195496596975031
TTATGACACG	493.839149354257	0.179527489074767
TAGTCATACG	493.93369910803	0.730445266185896
AACAGTCACG	494.117928476441	0.218942241228332
TGGACTCATC	494.218051038124	0.143465775527602
CGATGACGTG	494.236711984535	0.148336066100232
GGATGACTTA	494.451164541807	0.383836386381241
TGTGACATAT	494.531214486599	0.383157807564355
GATGATTCAA	494.560141495105	0.206559441247231
TAGTCATTAC	494.925945760549	0.25084176524964
AGAGAGTCAT	494.928745798673	0.452920940286706
GATGACGTGA	495.342823904582	0.191423803112668
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GGACTCATAA	495.772903797575	0.125722070505235
GGTCGAGTCA	496.100995815906	0.118824862838292
GTCGTGACTC	496.123254978047	0.283514810870353
AGTCACATTA	496.218793247839	0.322105563384136
GAGTCAGCGA	496.222768986847	0.158831351893576
GTGACCCACC	496.257101040655	0.219372970356465
GAATGACACC	496.373972264986	0.171507076081729
TATGATTCAA	496.413689646628	0.176456760633376
AAATGACGAA	496.866305492649	0.115969489221901
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GGCGTCATAT	497.485038034707	0.160842274028245
GATGACATAC	497.744109404112	0.136154988701512
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GGTGACGTAC	498.352066773323	0.232575956036929
GACTCATAGA	498.380242164172	0.112711974598489
GACTCATATT	498.688476089446	0.329755313161904
CATGAGTAAA	498.737044692162	0.122663198838941
ATAGTCATTG	498.84521247293	0.296843948021812
TGAATGACAC	499.821649181492	0.0611750518490411
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GCATGAGTAA	500.947843112886	0.239702081762733
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GATGAATCAG	501.187065327435	0.279129781832692
GTATGAGTAC	501.188787557111	0.126331059552535
ATTACTCAGC	501.561585855111	0.153386554072769
GACACGTAAT	501.731131525194	0.228382405765004
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TCTGACACAA	501.944732620163	0.216867459261995
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GAGTCACTGG	502.352658948104	0.208652192849883
CTGACTAAGC	502.697726377186	0.271681585815116
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CAGTCATCTC	502.990989554766	0.340941832405089
GTATGACCAC	503.575735964814	0.241638086576976
CGAGAGTCAC	503.604887861586	0.391145376236358

TAGTCACAAT	503.697617999423	0.308511544809989
GGTATGACAA	504.00361133545	0.120148221081416
ATGATGACGC	504.042852724254	0.166283496696804
GTGTGACGTA	504.110520979743	0.165790268673128
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CAGTCATTAA	504.134587677813	0.358998700649639
GGATGACCAA	504.366019327878	0.121812738322449
AATGACACCA	504.382710164557	0.194450876488462
GAAACAGTCA	504.481704464089	0.311903372380883
GATGACGCCA	504.588385930558	0.311394303242545
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ACTGACTGAC	505.472080879312	0.218964039293225
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GACGAGTCAG	506.670150027031	0.270574127645143
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AGGATGACAC	507.022637040654	0.263429676727461
AACTATGACA	507.323321255718	0.109704950440766
CACAGTCAAC	507.332303483633	0.164327918351291
AAGTGCTACT	507.529984224355	0.118356981724105
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AGAGGAGTCA	507.727122724982	0.161520024053054
TGACGCTACT	507.792140549775	0.272446868567202
CGAGTGACTA	507.951037069396	0.294748623951179
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ACCGATCAAC	508.541048643357	0.366078276779163
GCGTCATATC	508.774066386437	0.280327839664905
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ATAGATGACT	509.296056084697	0.304356882240085
CTATGACCCA	509.620071158712	0.155956698613397
GGAGTCAGCG	509.766302598721	0.194551804224529
GGAGGAGTCA	510.104936289191	0.175683301181076
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TTAGATGACT	512.969113608817	0.209388174245116
TGTGACCAAA	512.998401358403	0.123139159170344
TTAATGAGTC	513.072223284267	0.0277854877309587
CAGACTCATC	513.134848780604	0.250124976923188
TATGACGATG	513.191819587305	0.223924266007328
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TCTATGACAA	513.586465966882	0.248150228957279
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AGTCATAAAG	517.437410161507	0.204732204649993
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AGTCATTGTA	523.815782853204	0.173501791061655
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GATGCGTCAA	526.152766277818	0.288068283858875
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CAGTCACACC	529.049596634461	0.242373114271285
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CTGACTGACG	529.237106569112	0.19152808409459
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GTATGAGCAA	531.578878411048	0.183523971997998
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AGTCATCAAC	533.109634044198	0.786140765621858
TAAATGACTG	533.110947094214	0.200728253143059
TATGAGCAAA	533.163012556697	0.140353528980657
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GAGTATGACA	534.016466904672	0.163740945389949
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GATGACGGAG	550.07206420301	0.226801091649351
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GAGTCATGAG	550.692156999266	0.356090316750739
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AAGGGTCACC	551.299843147016	0.136610132805907
GAGTCAGAAA	551.542111792149	0.212377580103298
TATGACGGAG	552.068487755844	0.196344874932402
ATAGTCACAA	552.087529579319	0.226205579030274
GCGTCATAGC	552.360119701032	0.408790321456068
AATGACCAAA	552.374419452705	0.183265865632493
ATAGTCATTA	552.397538375263	0.344648585105908
TGCAGTCACT	552.703885400608	0.0810345627410193
ATGAATCAGT	553.450412961719	0.324295611415773
AAGTCATATA	553.921241130649	0.0600997014396807
GCCTAGTCAC	554.012852076965	0.246673680512102
ACGTCATACC	554.022170090903	0.174553342483059
ACGATGACGA	554.381071604033	0.263675911731161
GGTGACTTAC	554.547865423335	0.193051741445666
GGGACTCATC	554.705672146763	0.276802510678825
TCGTGACGCA	554.768976047422	0.531019359557538
GCAAGTCACAC	554.94877000372	0.382081704521315
GAATGACTACT	554.966442297077	0.316476479592557
GAGTCAGCGC	555.121860958656	0.358904233441733
ACATAGTCAC	555.296799299146	0.137676542912937
ACGTCATAGT	555.380402863905	0.12021129051084
GTGTGACCAA	555.428593913954	0.11076076181228
AAGTCATGCA	555.560522220435	0.141507524996739
GTCTGACACA	555.675263830875	0.270124642923178
TAATAGTCAA	555.783831697874	0.026755565833397
CTTAGTCAAT	555.83658122343	0.159544500662977
GATGACGAAC	556.701230076413	0.121951372380678
TTCGAGTCAG	556.712738944359	0.480526673708478
AGTCACATAT	556.729418559029	0.202057675266707
ATCTGTCAAC	556.987872860161	0.371317028604507
ATACTGTCAAT	556.997606037738	0.171905865661593

AGTCAGTCAA	557.02171895262	0.207454241575078
CAGTCATATA	557.023343561443	0.386091729829689
ACGTAGTCAC	557.162338196679	0.364863330245127
AAATGACGTG	557.718399683972	0.17357866912251
CATGACTAGG	557.727304505779	0.401094091935769
TGACTAAGAA	558.244635144019	0.357090772386356
GTGACTACCA	558.269884394971	0.167329886860338
CATGCGTCAG	558.471512452801	0.145921555998745
CGGTATGACA	558.513193529481	0.169950176961782
GATGACGCTG	558.604842822436	0.118675601130988
CAACGTCATA	558.787612190168	0.117164801056921
CGAAATGACT	558.913291798191	0.27722627325582
GAAGATGACT	559.200579611404	0.228472403883167
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TATTACGTCA	559.250536430601	0.24296282203281
ATGACTAGCA	559.404904427413	0.912505611812249
CCGTGACGCA	559.456848528492	0.396466595369458
CAATGAGTCC	559.858521649783	0.113587832431206
AATGACGAAG	559.959833531803	0.417449521555345
TATGACAATG	560.157143129518	0.210431860855532
AGAATGACGT	560.475279404797	0.233203520609105
TTAGCGTCAT	560.487880657855	0.412395967509333
TATGACAACCT	560.527506298778	0.264828131920395
GGATGACAGA	560.663752704531	0.21682773366273
GGTAGTCACC	561.875731810724	0.403941425730663
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GTGTGACACC	562.83424117637	0.208003041458318
CATGACTACT	563.068084885873	0.304509337417769
GTGTGTGTCA	563.495360130485	0.19777614477977
GGGTGATTCA	563.63943393708	0.25771006212622
GAGCAGTCAC	563.954703809705	0.235351046731794
ATTTGCTCAC	564.575153317031	0.192351177918581
GACTATGACA	564.770844305379	0.159708442257608
AATGATTGAG	564.975821266777	0.343851133403183
CTGATGACGC	565.612903114037	0.340266725430128
TATGAGCCAC	565.776770897864	0.215251173246969
GGAATGACAC	565.8175333543	0.204381401200476
GGTGATTGAG	566.2104415075	0.271570878349378
ACACGTCAGA	566.61756769238	0.174070601031403
AGACTCATAT	566.662227945926	0.16923332055057
ATGACGAAGA	566.802896027167	0.177129789802692
CGACTCATCG	567.206605641519	0.474933725439747
AAGATGACAC	567.258450650466	0.181606145772536
AAACATGACT	567.343317661449	0.203856884638945
ATACGAGTCA	567.357890612622	0.275759540552271
TCGATGACGA	567.395822130149	0.138744295126925
TGATGACACC	567.411441647279	0.334720636121439
CACATGACTC	567.528739064767	0.511068578207494
CGCAGTCACA	567.772921042361	0.226601488403161
AACTTAGTCA	567.828715424991	0.366918752663085
TATCGAGTCA	568.016559259515	0.221356397661481
ATGTCAGTCA	568.144896494154	0.245405765373612
AGATGACCGG	568.662844672642	0.436749914471581
ACTGACTAAG	569.236723353117	0.346875493077434

CGTGTGACAC	569.284992165412	0.0838071098559925
AGGTGACTAT	569.597207706265	0.0693910394857062
GATGACAGAG	569.811314717828	0.229192881417491
GACTCATCCG	569.814267022358	0.391219524943152
GGTGACGTAG	570.158815833297	0.192361305432898
CATGACTACC	570.334901615191	0.106426733062432
CGTAGTCACG	570.645103394191	0.0548397779372283
CTAGTCATTG	570.808501888931	0.436294950191028
CGTAGTCACA	571.071961323656	0.398064984110301
TAAGAGTAAT	571.078417316063	0.26332742729185
GAAATGACGC	571.273659033757	0.290475410896659
GTATGACGAG	571.361231119647	0.201850672250738
TCGATGACGT	571.512078448369	0.246636304077649
CGGATGACGC	571.7922620259	0.389056785990694
ATTAGTCGTC	571.842184737446	0.203677369877658
GTATACTCAT	571.926559377054	0.224196740768718
CCAGATGACT	572.174042522933	0.18915273975808
GGACTCATCC	572.396004117717	0.220879774877627
ACCAGTCACG	572.960682072445	0.0501370226319949
ACATGAGTAA	572.973492704642	0.228919322898766
TATCCGTCAC	573.948737721635	0.147542862334955
GAAGCGTCAT	574.160865480555	0.110924520584684
AAATGACCAA	574.240288506613	0.150238354618804
CGATGAGTAC	574.436449460028	0.111077226607458
ATTACGCATC	574.537227675627	0.30325123447397
CATGAGTCGT	574.659789617028	0.166578275903933
CAGTCACATT	574.660498554324	0.344061233810528
TCAAATGACT	574.84124117596	0.14084868462805
ACAATGACAC	575.081920252309	0.208623908591121
GATGAGCCAC	575.247889959149	0.285741941350864
AATGACGTGA	575.41782683262	0.256474298575957
GTGTGACGAA	575.942109309421	0.194791182851217
GTAGCGTCAT	576.043905445539	0.24981928604131
CTATGACAGC	577.220930079818	0.153535758834234
CAGTCACTCA	577.693646394395	0.175792803169229
GATGACATAG	577.765497759366	0.183284945802179
TCGTCATAGT	577.948184232713	0.235709840434796
AGACTCATCA	579.179534134199	0.319284098742026
TCGTCATAGA	579.213850749197	0.131274947385217
ATAGTCACAG	579.43776667591	0.174905291595631
GCAATGACAA	579.442742628081	0.132247404639999
AATGTGTAAT	579.957367945222	0.246823039423446
TCGATGACAA	579.958373570483	0.116216300262054
AATGACGGAA	580.255313149862	0.352101407775611
CTATGAGTAC	580.495514185266	0.252673506333884
AGCGTCATAG	580.659354761402	0.0877387865467423
AAGGGTCATG	580.880028157054	0.175083466419433
GATGACGGAA	581.209022667178	0.167759986820717
CAGTGTCATC	581.304790261142	0.320756896673652
AAGTCATCCA	581.31550018849	0.315697307116445
TCAGATGACT	581.498000899846	0.242929926920056
AATGACGTGC	581.573957472764	0.355781686133085
AACAGTCACG	581.838839129314	0.331008140797686
AAGTCATTCT	582.010119520209	0.180963144369971

GAGTAGTCAC	582.053612785286	0.180097952049621
AACACGTAAT	582.296736746859	0.137786902789893
GATGACAACT	582.782483587786	0.0609390006828841
CGTGACCCAT	584.273094720134	0.0856959913673509
GACGCGTCAC	584.278686679675	0.183918276073448
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TTCTGACGCA	584.528911091005	0.336434130603919
CAGTCACCTA	584.909183866183	0.154989843211291
GTGATGACAC	585.116126544375	0.361780228201449
TGTCATAATA	585.492368411543	0.140947230488155
GCGTCATAAA	585.657923433963	0.108504848192711
AATTAGTAAC	585.815788409228	0.266654970028563
ATGTTACTCA	586.169175549915	0.25442834819459
AATGACGCGG	586.281520400404	0.325902956419203
GCAATGACAC	586.665877073516	0.324778320895999
TGATGACATA	586.819466878368	0.207565518144112
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TAGTCAGAGC	587.386858272451	0.20646559859853
GACGTGTCAC	587.598112401448	0.137504369027418
GCGTGACTCG	587.902170704806	0.557764077440825
TATTAGTAAC	587.935758737286	0.25734574694607
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GTAATGAGTC	588.952687381101	0.254651013218244
ACTGACTCCT	589.021041244869	0.122043897614788
ACGCGTCACG	589.376311789896	0.897273142664255
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ATGTGACTTA	590.155662518117	0.159227868676092
GTCTAGTCAC	590.506040939095	0.184147800934133
ATTGCTCACT	590.568969108003	0.194660338424703
TATGATGACA	591.126386193719	0.282946306649847
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AGTCATCATC	591.428434990438	0.0700624045382473
AAGTCATCCT	591.531152563263	0.19948452203116
AGGATGACGC	592.171760902187	0.215409401937178
CATGACGTAC	592.196037172645	0.220601482625548
AAATGAGTAC	592.224363907454	0.198615441178543
ATCGATGACA	592.324323621344	0.213810581255532
AAGTCATTCTG	592.357900237088	0.293203384864414
ATGAGTCGCA	592.849611292011	0.0774247309152921
CATGACATCA	592.912341040182	0.0791244710246185
TGTGACCCAC	593.111829800993	0.165187864933926
GAGTGTCATC	593.323331224233	0.194875500676775
TGACTAAACG	593.420046052826	0.279918261119371
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CATGACTGCT	594.069507383335	0.254540926243302
GAATGACGCT	594.071688380348	0.325509274408306
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GCGATGACAC	595.327145181353	0.120668802643568
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ATGACCGATA	596.696982056254	0.360368250603751
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GATGACCAAG	600.640054494056	0.18302090358992
AAGTCATTAT	600.765299164446	0.196772359598705
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CATGTCATAG	601.294918949343	0.287919976447327
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TAAGACTAAT	601.803178234421	0.201353479540474
TAGTCATGCG	601.92247367618	0.367471842602557
AAGTCACACA	602.098351577765	0.252006797671771
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GACTCATAAA	602.250454153321	0.242903494687084
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TCGTGACTTA	602.665478993532	0.89949774556261
CATTACTCAA	602.955795461165	0.227328838659862
CGGTTACTCA	603.081741544991	0.258003032888284
GGTGT CATAA	603.165109941252	0.242708751283561
GGATGACGCT	603.32716967055	0.384334437700428

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CAGTGACTAC	603.509551031277	0.159813489545001
GCAAATGACT	603.60633720856	0.288815019722182
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CATGTCATAC	604.108375839788	0.339976248777557
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CGATGACGCC	605.848117260965	0.0921661300564349
ACTGACACAC	605.944209510437	0.190585744676047
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TGACTAAACA	608.306102526398	0.336121246837036
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AATTCGTCAG	610.368212358832	0.268323281661323
CAGTCACAAAT	610.594353248614	0.230672550361936
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ACAGTCACTC	617.197319248251	0.258133179615055
GATTACGCAT	617.340090045338	0.181272282567194

AATGACTTAC	617.356502121861	0.215764876855129
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GTATGACAGC	618.161546571153	0.364694281794709
AATATGACAG	618.572792456077	0.24093214392364
CAGTCACCGA	618.603391330562	0.187501471888637
AGTCATATCC	618.895700030099	0.187109782495183
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GAATGACATA	621.525654082629	0.181130958199372
AGATGACGAT	621.639749529952	0.19192996190985
TAGTCACTGA	621.829238080305	0.114620338587077
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AGATGACGCC	622.964979383548	0.325545839400684
GAGTGACTAC	622.977997010413	0.123342708027497
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CGATGACGTC	623.286300856964	0.188795351096539
AAGTCATTGA	623.296808623247	0.177465134383626
AGTCATTGGA	623.669813604847	0.172722598921556
GTCGTCATCA	624.158335723797	0.135645174652277
TGATGACCCA	624.291547782352	0.208595106540708
GCTGACTCCC	624.602011384082	0.122839485893963
CTATGACAGT	625.093638050068	0.205693660914426
CGACATGACT	625.642744153414	0.164009901289575
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CCATGAGTAA	625.771108652632	0.428888115894432
TGACTGAACA	626.118819649004	0.150745037184403
ATGAGTCGGA	626.766970061849	0.326249942634164
ATGACCCACA	627.2440494249	0.0949431956583641
ATTGACACAC	627.247034733092	0.187672237258668
AAGACTCAGT	627.265893703323	0.172343688010701
GATGACTGGC	627.314600092873	0.361353458804103
TGATGACGCC	627.458961884659	0.226800453785522
GTGAGTCGGA	627.485564147486	0.186353242469924
AACGATGACA	628.241862050232	0.206782757751464
TACGAGTCAA	628.483255221802	0.19132512631949
GCTGTCATAA	628.511202039002	0.209714842105187
CATAGTCATG	628.560695446527	0.054445015759208
GAACACGTCA	628.656325024315	0.214566717460401
AGTGACGTAC	628.720365708988	0.169754230635473
TGACATGTCA	628.735968793664	0.194666315059599
ATGACGTGAC	628.743545883234	0.401766115831132

TACACGTCAG	628.784911135155	0.28890346230149
AGTCACCTTG	628.817640731853	0.242624255574279
ACTCATGACT	628.942890316107	0.208180505427496
TTAGTCAACT	629.243989402928	0.320207234563473
TGAATGACGA	629.285166619268	0.210156164756177
ACGCGTCACT	629.392571288389	0.822127134743898
TCGTCATAAC	629.480981308125	0.145973686100783
AGTGACCAAT	629.875571749309	0.325827566168167
TAGTCACAAA	630.043293652385	0.280343998675612
GGGTGACTAC	630.125618247876	0.124891828659693
AACCATGACT	630.264574156659	0.0924049738362399
AACAAGTCAT	630.752670178697	0.199257307698525
AGACTCATAG	630.771337887216	0.299511464867785
TTGTGACTTA	630.829443475505	0.201558505472817
GCGATGACGA	630.938108170672	0.176767821136201
ATGACATCAA	631.61288884701	0.397816995560966
CTATGACAGG	631.62718089718	0.129457850348556
GAACATGACT	631.863362421974	0.272215496163016
TAGAGTCAGT	632.469634559372	0.494683796436153
TCGATGACAG	632.51619726372	0.311750107098208
CTATGAGCAA	632.591197788339	0.190440013888185
GTTACGTCAG	632.709336892979	0.516316674666313
TAACGTCATC	632.79900471143	0.133214536364
GTAGTCAGAG	633.521465153869	0.121076899564332
ATCACTCATT	633.609988504709	0.204064025032822
CGACTCACAC	633.650471655209	0.193901892367352
AAGTCATTAC	633.716866322696	0.186361216522245
CGAGTCAGAT	633.844838044235	0.240356720945547
AGCGTCATAT	633.934178776616	0.294879059211241
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ATGTGCGTCA	634.821635821848	0.125952327029238
AAATGACACG	635.261111107495	0.304690109255554
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GCATGACGTA	635.344305094091	0.212483309023458
CAGTCACAGC	635.937122273337	0.511943953119977
AAGTCACATT	636.564631419491	0.219841071284987
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AAGATGACGC	636.94531302156	0.258644892278017
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AGGATGACAG	637.70036540102	0.0739481321442811
AGATGACACG	637.779621283827	0.247466457238372
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GTGACACAAAG	640.850062995449	0.305641401069434
ATGAGTCGCG	641.573112232857	0.432986445564508
ATGAGCCACC	641.773645155958	0.173435644742799
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GAGTGACTAT	643.321863596057	0.231718921203058
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AGATGACGGA	645.597189194871	0.167017714586331
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AGTCATACCC	648.95713856009	0.52220713406812
GGATGACACG	649.12934030507	0.0469070749105794
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AGTGACTACG	651.612454117542	0.254231908848721
ACATGTGTCA	651.66164834696	0.213998345147336
AGGTTACTCA	652.018546016779	0.193491206641725
AAATGTCATA	652.34007817049	0.252753273832948
GCAAGTACCCG	652.457603304402	0.335399019895206
ATGACTGCGA	652.468491836907	0.352823236646025
AGTCATCAAA	652.550183656188	0.409501986512787
AGGTGATTCA	652.736868127583	0.116142415901502
CTGTCATAAC	653.034773054954	0.246006537378053
GAATGACCAA	653.101760900053	0.160244178653088
GTAATGACT	653.571353000097	0.254584707203347
AAAGGGTCAC	653.625100463138	0.202749860578539
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ATAGGAGTCA	653.894098614985	0.215918278086731
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CCATGACTAT	654.032668019085	0.218144551861041
TAGGAGTCAA	654.455960682235	0.209529733033612
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TAGGATGACA	654.932144109851	0.251431155493932
GATGAGCAAA	655.168182955778	0.150222080939754
GTCGTCATAG	655.621808700512	0.141254652189228
GGTATGACAG	656.107106067456	0.0992075641149893
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CATGACCCAC	657.218876172112	0.187982142042219
AGCTATGACA	657.535127040244	0.30119069562317
CATGACCAAA	657.546682668933	0.0968450965281272
CGCAGTCACC	657.974728941216	0.176806841207105
CAGTCACATA	658.764585563728	0.103277037895705
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AAGTCATTGC	660.371667099677	0.0842153409318759
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CACAGTCATG	661.172523597233	0.252959093981618
AAGTCATTCC	661.587520724457	0.126288406535439
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ATGACGTTAC	662.843596128948	0.129562919439828
GGCGACTCAC	663.454348317383	0.229349698354825
ACTAGTCACG	663.608988851784	0.109481587463791
ATGACACCAA	663.827435067181	0.148747635643064
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AGCTGACTCC	664.252525730393	0.152778845662188
AGATGACAGA	664.309797449246	0.250911905655612
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TACATGACTA	664.958248923804	0.336727409018871
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TAGACTCACT	665.498887997143	0.160211193472181
ATGAGTCGCT	665.710905752044	0.281281604021778
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AGAGTCAGCG	666.497115698957	0.1137023140942
TCATGTCATA	666.555424827765	0.261306776766237
AGTGACTACC	666.603931197864	0.201595094153343
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ATGACTTGGA	667.227419567192	0.248505984322701
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GAGTCACCTG	668.770268320081	0.36988491785493
CACACGTAC	669.021695884754	0.198580764909293
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CGATGAGCAA	669.122900952689	0.168151473859949
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CAGTGACGTA	671.363415101973	0.294389529623688
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GATGACCCAA	673.01636026555	0.257672073970476
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ATGTGATTC	673.2144535487	0.17005650475749
AGTCACATAA	673.402871947856	0.115118486933165
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AGGATGACGA	674.264180906689	0.194835149108646
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GACGTCATAT	674.827594701725	0.269542333590936
GACTCATCTT	675.132485528319	0.0521544805206687
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AACGAGTCAA	704.967001922257	0.235793068864114
AGTCATTGGC	705.538840548422	0.312819745139461
GACTCATCAA	705.571230668562	0.271006491350121
AGTCACCTTA	705.646192371231	0.238041817886872
CGATGACCAC	705.855344267872	0.207283237815475
CCAGTCACCT	706.015045195488	0.185591861418142

AGATGACGAG	706.174590537156	0.163968169970392
TGTGATTCAA	706.281091434278	0.234155369537251
AATACTCATT	706.314595643259	0.300144153373959
AAGTGTCAGA	706.863783963502	0.161128351057918
GAACAGTCAG	706.886325110085	0.108863326188347
ACCGACTCAT	707.045638346468	0.224009946509279
ATGACGGTAC	707.148476785345	0.221037537237109
AAATGACGCC	707.223186032852	0.207552349809672
GGATGACGCC	707.336156635342	0.200794518124345
AGTCATTGGT	707.922230181752	0.230346298293375
ACCGCGTCAC	708.34250871285	0.158497350179542
ATGACGGCAT	708.691473996728	0.238359667263401
TGTGACGTAG	708.754979603525	0.137506236948024
ATGACTTAGA	708.812632953142	0.141303325493996
GAATGACGAG	709.724945738855	0.200524552509819
CGTGAGTAAA	710.184695336547	0.110276578845832
AGTGACAAAT	710.285851966249	0.115257425343902
AGTCACATAC	710.593038190297	0.240090652623664
CAAATGACAC	711.117456227346	0.0982495667984728
GTCAGACTCA	711.318409617496	0.217374431648387
CATGACACGT	711.675216142144	0.0896886204081228
TGACGTCACG	711.702613777025	0.182374145673528
CCTAGTCACC	711.771405192759	0.192020218584746
AGGTAGTCAC	711.784386069955	0.162021182016899
ACGTCATATA	711.865701056515	0.119367618803026
GAATGACGAC	711.920969389478	0.25605164373588
GGAGTCAACG	712.133073287474	0.26578184047493
CTAGTCATGA	712.372617282472	0.102895381323417
AGTCATGGTC	712.90724477744	0.241895286678404
AAAATAGTCA	713.139616157993	0.175134277344211
GTATGACAAG	713.440097822749	0.17598099038296
ATGACAATAC	713.528852000627	0.2379147540645
GACTCACTCA	713.812666400938	0.109771512184052
GATGATGACA	713.870734324911	0.168907441528806
ATTGAATCAC	713.942496688744	0.105803863677572
TGTTACTCAA	714.668684955737	0.124354312396429
AAATGACAGA	714.775903578158	0.132220013545461
CGATGACGAG	714.841308343615	0.166369966983981
GGCGTGACTC	714.994184614589	0.316256114500012
CATGATGACA	715.855757015206	0.2034885101597
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AGCTGTCATC	716.076535589517	0.150769714217909
TCGACTCACT	716.194698753908	0.169244023965816
ATGATGACAG	716.226751388265	0.113497646049564
AGTGATTCAG	716.811444135364	0.151801434851098
CGACGTCATC	717.06296427669	0.109819877177784
AGTTACGTCA	717.118431751394	0.0792558530814037
TAACATGACT	717.801854369379	0.201137050821999
ACGATGACAG	717.902685327395	0.117464566101399
AAACGAGTCA	718.221832799922	0.264099901705471
ATATGACGAC	718.463371774478	0.188832435524292
AACTGACTAA	718.509065031616	0.482491224252223
ATTACGCAAC	718.582966936685	0.254533283049834
GGAATGACGT	719.247185607813	0.123050793211229

GAGGAGTCAA	720.008909502509	0.286031039914751
AGTATTAGTC	720.526582479291	0.143223762610516
ATCACGTCAT	720.569819857449	0.272684168004773
GAATATGACA	720.703141624396	0.163967162251758
ATGATGACAA	720.79121159137	0.156501789314788
ATGAGTATGA	721.111120025268	0.151916774805376
GTTATGACAA	721.307070320714	0.227682425112841
ATATCGTCAC	721.650826069844	0.171239240052537
AGACGTCATC	722.162470171618	0.190419774837957
GTCGCGTCAC	722.359052067214	0.127640047706207
CCTGACTCCT	722.38318890729	0.197971218775243
CGTGACATAT	722.667541066491	0.118652815090616
GACTCACACA	723.109929530396	0.211498649511453
TACGATGACA	723.181253958944	0.205275714652338
ATGTCATAAC	723.187777266844	0.232983496772706
ATGACGGAGA	723.323535550266	0.207812513179907
AGACGAGTCA	723.425504422335	0.174088556776753
TAATGACTAG	724.291639967929	0.272356157961801
AGTCACCCTG	724.338049901997	0.13941671228793
CAACATGACT	724.452812683967	0.248596967405546
AGAGTCAGAT	724.704001541138	0.142630230403306
AAGTCACCAG	725.015956897326	0.131329433123714
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CGATGACAGC	725.491163136835	0.190929150862416
TAGCGTCATG	725.705205825902	0.292524488840566
TGACTAAAAC	725.918068489836	0.204521223305622
TGACGTGACA	725.989393735078	0.156596389489547
ACTCCGTCAT	726.001979525979	0.20378091771039
ACGACGTCAT	726.03865698864	0.130000685960461
CGCTGACACA	726.07458880149	0.245058781095048
TAGTCAGAGA	726.384498549464	0.194287795248539
GCCATGTCAC	726.62921731751	0.135385036170738
TAATGACACC	727.185622403544	0.258508706203693
AACGTCATCC	727.337946194863	0.112004279708203
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CTGACTCCGA	728.035086297902	0.198606879323442
CTACAGTCAC	728.049734836639	0.199441160849
CACCAGTCAC	728.28063254584	0.165693763534021
GTCACCGTCA	728.689425178346	0.189169966693702
TACAGTCAGA	729.128859137469	0.0923718719594615
GTATGACCAG	729.621857709958	0.183912197220153
GACTCATCTA	729.794908287568	0.280015789308781
ATGACGTTGC	729.811302138189	0.219369556202503
ATGACTTACT	730.059337436925	0.20629284016051
TAATGTCATA	730.254450380497	0.158801667296413
ATCTGTCAGA	730.262094821921	0.125456145863112
TCTGACGTCA	730.383590826231	0.1761386477625
AGAATAGTCA	731.033657907944	0.0888191893128081
ACCTCGTCAT	731.291905043656	0.221980630850509
ATATGTCAGA	731.880574989922	0.163261342375363
GATATGACGA	731.995000622216	0.256834122441744
GATGACCACG	732.097187148869	0.235948976397582
GGTGTGACAC	732.139183290464	0.0909702652526165

CGTGAGTAAG	732.191220262589	0.190222985585146
TCTGACTGCA	733.505253849413	0.2132716352255
AGAGTCAGCA	733.923666791924	0.114534092486832
AATGACGCGC	734.044815706798	0.263217414007222
AAGTCACATG	735.551315526068	0.138659087155728
GGGTGACGAA	735.911064284468	0.205295301732712
GGGTGACTTA	736.514074574769	0.161202271949744
CTGTGACGAA	736.540238360148	0.139285433888223
AGTCATTGGG	736.565979053344	0.31880331240446
GCAGATGACT	737.160305772065	0.211229483386853
TTATGACGAT	737.257650898753	0.232972535261307
ATGATGTGGC	737.724021798159	0.186815214023372
ACTCTGTCAT	737.76460841962	0.23639989138254
TGGAGTCAAC	737.855769528835	0.129361063176708
TATGACGGCA	738.031411579582	0.134650389440241
GCGATGACAA	738.405545526966	0.137378050393187
AACTACTCAT	738.457124428584	0.2098701368932
GACTTGTAC	738.939915164165	0.198766577597686
CGAATGACGA	739.076115181112	0.16410471365282
AGTGAATCAG	739.236474332236	0.140611078574649
CGATGACAGG	739.730003531788	0.193356601512728
TAATGAGTCT	739.799618326145	0.204111791748632
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ACGTCATAAC	740.191923405699	0.307078971849081
CACTGTCATA	740.29331113096	0.229160961558728
TCTGACGCA	740.539837628949	0.279032119306258
TTATGAGCAA	741.222531310798	0.0905135825618971
GAATGACGCC	741.391286100232	0.21073236544667
ACAAGTCATG	741.531972753999	0.13792638218678
TATTCGTCAG	741.734222938898	0.187288088293731
ACATGACTAG	741.910628601127	0.313993402118238
GATGAGTACG	741.924779687699	0.0815043903550862
GATGAGCAAC	741.979990564517	0.156377928959791
AGATGACAAC	742.030254651033	0.176500376631825
CAGTCACCAA	742.262743983736	0.209920455993695
AATGTATGAC	742.514412261074	0.30929334995794
ATGACTTTTC	742.596887639098	0.31254676152889
ACTTTGTTCAT	742.957808130777	0.276061119359474
GTCACAGTCA	743.047707344279	0.28048473618026
CATTCGTCAC	743.214111808326	0.176173905652255
ATGACATATG	743.297632764981	0.287298737849104
AGATGAGCAA	743.332547425803	0.164688191138105
AGGTGACCAA	743.43773383305	0.20783522049422
GACTCATATC	743.458209601893	0.294892467963889
GGTGACCAAG	743.613267516344	0.272130688163332
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GATGACGAGG	745.477700123331	0.159804113589986
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TAACAGTCAG	745.774958265431	0.124697473677563
CAAATGACGC	745.829951847515	0.181169208570938
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TCCGATGACA	746.234422874453	0.116689118819676
ACATCGTCAT	746.725478728516	0.208813498001655
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ACGACTCAGA	746.917653672433	0.186648168589934
ACCGACTCAC	747.152766463867	0.117002745449577
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AAGCGTCATG	748.013214395605	0.136348199718321
GAGTCACGGG	748.02314356481	0.407082689073675
AATGACAGAC	748.104706775489	0.203774232091453
ATCACGTAC	748.310614075433	0.141347191943279
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CCAAATGACT	748.570685874685	0.181458173080868
CAATGACATA	748.659343604659	0.117816602818617
AGTGACCCAT	748.826373877345	0.171500201183749
ATGACAGTGC	748.846939405237	0.185290682579246
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GAATGACACG	750.252724526335	0.273930880307518
GGTATGACCA	750.49797087599	0.203485438921122
AATGACATAA	750.529003729802	0.181703318158482
CTAGTACCA	751.12356299843	0.269487200738059
ATGACGAACA	751.225429431997	0.251692378835605
GTGACCCACG	751.322786024096	0.11031906685841
GATTCGTACG	751.450898053721	0.0908877526246924
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ACGTCATAAG	752.417905589475	0.21138184898262
GATGACGGAC	752.538156372004	0.0844202168489437
TCAATGACAC	752.71165719315	0.218432581664399
AGGTGACGAA	752.785078615416	0.152598982701306
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CATGATTCAG	754.176626404881	0.16874766705576
AGCATGACAC	754.224294851233	0.193541942849161
ATGAATCAAT	754.8222979532	0.109729321935676
ATGACATAAA	754.853795187295	0.179220004527905
CTATACTCAT	755.131994799773	0.154962492561405
AGCGTGACTA	755.209180667486	0.367714752344837
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CAGTATGACG	756.435326221198	0.252012450902404
GAGTCAGTAA	756.571932907756	0.167824985352863
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CAGTCACAGA	757.206363878891	0.371993287035817
GTGTCATGCA	757.241106981438	0.17049207285402
TATGACGCC	757.453086734232	0.107031681351275
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AGTCAGAGCC	757.916890492884	0.217568177749768
ATATGACAAAT	757.968822572303	0.21843948791041
CAGTCATGCA	758.173333861601	0.244596264632282
GATCACTCAT	758.230163823169	0.209637371663467
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TAGTCACAAG	758.947611402242	0.195753182043834

GAGTCAGCAA	759.759716467418	0.169153881503142
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GCTGACTCCG	761.013461445815	0.10950756078054
ACTACTCATC	762.038353893649	0.186482559160082
AACGTGACTG	762.594418715529	0.283939921703996
AAGTCACCAT	762.911911753531	0.214595891038844
TCCTATGACA	763.22905143852	0.188034532271576
ACCAAGTCAT	763.585064573299	0.335794786354448
CCATGACTGG	765.117214720788	0.144687455160064
GACGATGACA	765.605098203526	0.342627736983806
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GATGAGCAAG	765.887063853747	0.173315600178081
TGTGACAAAG	766.132902253548	0.217495337198264
GGACTCATCA	766.922905309737	0.267444712565001
TATGACCTAA	767.19258110271	0.110327705596103
CTATGACAAG	767.405093638654	0.245150722651757
CCAATGACAC	767.59628032758	0.146731116268619
GCGTAGTCAC	767.824753248272	0.235986099256374
ATGACTTAGG	767.864975488135	0.351301589230062
CTGTCATAAA	767.942218247009	0.193400255424317
TACTCATACA	768.024644203544	0.172596090082147
CACATGTGAT	768.251040904389	0.202558366838083
ATGACAAAGA	768.508780393399	0.211800386241445
AGTCATGAGG	768.700431929508	0.138249506655866
ATGAGTCGCC	768.707791412234	0.278696399350888
ATATGGTCAT	768.720336817578	0.175445478088656
CAGTCACCGC	769.001549947748	0.19496907227167
GTCATACCTA	769.078826283407	0.113652683425722
TACTGTCATA	769.385374554313	0.201511677608629
GTGAATCAGG	769.694157053644	0.192917614027956
CATGACGTGG	771.287468090136	0.129125976644277
ATTGCTCAGA	771.851066925911	0.213886642501009
AAATTATGAC	772.310358942018	0.168091374897527
ATTAGTAAGA	772.338172154983	0.171281522678046
CAATGAGTCT	773.216064985903	0.225321465652014
TTATGACCAC	773.26206969473	0.165154403957253
ACCTGTCACA	773.74881267886	0.139723218854429
TTGACTGAAC	773.899264873858	0.102147574082939
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GCATGACACC	774.194851413825	0.169606427466889
AAACTGGTCA	774.336535179211	0.136188436849194
ATGAGTGAAT	774.55143210555	0.174164068171701
TAAGACTCAA	774.603642176965	0.395617165015079
AGTCATGCAG	775.115403140912	0.147798770346256
ATCTTGTGAT	775.581281599622	0.16807067535025
AGCAGTCAGA	775.726863551223	0.159738136884039
AAGAGTCTTA	775.774266845164	0.142816081860655
GATGACCCAG	775.832420829482	0.184192518793702
CGTCACGTCA	776.686091678223	0.181291293936745
ACTCGAGTCA	776.815407140094	0.305765595873504
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ATGACCGAAC	777.062661398893	0.161596414176836
GATGTATGAC	777.094863761905	0.164916128961811

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AAACTGACTC	777.912636464577	0.140508651611933
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TGATGACGAG	778.092659882074	0.135508294726043
ATTGCTCACT	778.470411056648	0.154118476429207
AGTGACCCAC	778.814808169793	0.128256503726986
ACACGTCAGC	778.846211385443	0.254493483171661
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CGTATGACCA	779.04579932771	0.0186198651498479
GCATGTCATA	779.057706724112	0.185620592650231
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ATGAGCAAGA	779.19303728623	0.173640617600397
GGTGTCAAAA	779.612893057929	0.160726445963192
GTGACACTGA	779.664199728596	0.202521719015017
AAGTCACACC	779.880111912528	0.0993405893051369
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AGTGACTTAA	781.100425833822	0.197971891031659
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TAATGACAAA	781.335538644842	0.180252718184066
AGTGACGTAG	781.470229083475	0.132662730692884
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ACGCTGTCAAT	782.074963449474	0.126003377878005
ATGTCATACG	782.652175683399	0.307279168497531
ATCATGACAC	783.254762404826	0.143019521728271
CTAGTCACTG	783.352361853571	0.162258617070645
ATCCGTCACT	783.512845088221	0.21911486643021
AGTCATGAGC	783.807609124884	0.148415300705271
ACATGACGTA	784.155858659616	0.143884352256318
AGGATGACAA	784.218896061511	0.124995370380561
TAATATGACA	784.430069917165	0.16903637859067
TGTATGACAT	784.93610407607	0.150867971294553
AATGACACGG	785.099372740384	0.220876108739968
ATTACGTAAG	785.297222384238	0.181677893535017
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AAAATGTCAAT	785.76374199176	0.158214368451934
ACTAATGACG	785.895172086204	0.201828213628831
CATGAGCAAT	786.131136147064	0.0643066229426759
GAATGACCAC	786.274337637296	0.149600539858262
AACCAGTCAG	787.07369750922	0.253131272163479
ATGACAGCGA	787.485312358617	0.176588854907834
ACGTGTGTCA	787.586747380846	0.218680934970143
TGTGACGAAG	787.894152069789	0.145875247699809
CTCGGAGTCA	788.156157523243	0.220183018295279
AGTGACTCGG	788.471584321184	0.249278248640954
GTGACGCGGA	788.651994172551	0.119826751967249
TACTTAGTCA	788.661846345876	0.186283473463966
TGGCGTCACA	788.922978335474	0.170059853184637
AACTCAGTCA	788.949378358869	0.156025230855067

GATGTGTAAT	789.453107345791	0.267074961463593
TGACTAGTCA	789.592930799013	0.34489980827839
TTCTATGACA	789.634798597738	0.156506060920886
CATGACGCGT	789.739991861701	0.19610196598592
ATGAGCAAAC	790.381901731621	0.193779535666065
GTCACGTGAC	790.522311397916	0.167756670853857
ACGTGACTTA	790.977760399106	0.115406587512241
TCGACTCAGA	791.093309198397	0.118698396165897
CAGAGTCAGC	791.722506453225	0.150584034249996
GAAGGGTCAC	791.72630206057	0.17274761747732
AAATGTCATC	792.216495795446	0.0774152166246177
CGTGTACAAA	792.364839484943	0.221603893627835
TCAGATGACA	792.78327794426	0.172468100925326
AAACTTGTC	792.799053966248	0.217830889100374
TGCTATGACA	793.172030439903	0.154070915143075
ATAATGTCAT	793.364932647555	0.176022038447334
ATTATTCATA	793.457356006202	0.141382795528283
GAGTGACGAA	793.488668528282	0.135586596054744
ATGACTGGTG	793.555532932149	0.291679335734723
ATGAGCCACG	793.684486066597	0.182827281173639
ATCTGACACA	793.726672290176	0.168756970812574
AATGACTTCA	793.938817869379	0.210807963800102
ACGTCATAGG	794.271494730735	0.278626878237244
ATCTCGTCAT	794.543644715782	0.139449116875895
ATGACTTACC	794.630572504989	0.194200216339201
CTGTGACAAA	794.826609652779	0.177557823385763
GTCACATGAC	794.940050137733	0.313322450398667
AAGTCATGGT	794.994502078806	0.129140135600076
ATACAGTCAG	795.090790825762	0.10731930252209
CATGACGAAG	795.091101940845	0.179771782959486
CTCGATGACA	795.149941702437	0.13760119864737
TTGACTAAAA	795.419987088595	0.216981455730392
ATGACGCGCA	795.621097649454	0.255103388117555
ATGACTGCCA	796.129184435158	0.226757374910167
GTGACTTACA	796.137126410092	0.178751041876574
CCTGACACAC	796.377709953031	0.173394352154721
ATGACTCTCA	796.419570601859	0.176480260691148
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ACAGTCAGAA	796.692935133375	0.169373559980654
CTCGTGACTA	797.432164615749	0.115125074427819
ACGACTCACT	798.000852842436	0.177901738756804
AGATGACCAC	798.079996986907	0.146163297357073
CATTACTAAT	798.17664423772	0.199981563030552
GGGTAGTCAC	798.307605433135	0.155225064875424
GATGACGCTC	798.827742773588	0.172287200593299
ATGACACGGC	798.855021995891	0.211538666202716
CAGATGACAC	799.100782751404	0.190176390861257
ATGAGTAGTC	799.303340252179	0.132636831361357
GTCGGAGTCA	800.360433270026	0.151851802136444
GCGACTCACG	800.980592060601	0.249738561641315
CATGTATGAC	801.251434905691	0.28783622436451
AATAGTCAGG	801.406668652409	0.137322218138874
ATGACAGTAA	801.560969987105	0.182045747173248
AAAGGTGACT	801.688232657075	0.0962324608434066

ATGAGTAGTA	802.382565325512	0.179715006991121
GACGTGACTG	802.559755935262	0.230904662635461
CGTCATTGAC	802.704022944406	0.16234082671067
GTGACGTGCA	802.723523769022	0.159707598289028
GGTGAATCAG	802.814625264702	0.162869033876553
ACCTTGTCAT	803.136000997061	0.155479689467495
GCCGCGTCAC	803.229137033987	0.152031023432779
GTTGACTCGA	803.265654888183	0.190349868084883
CTAGAGTCAG	804.119262660222	0.186119073616324
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CCCTGACTGA	804.437588368603	0.144308084835018
GCGATGACAG	804.473813890935	0.14123162905482
GACGTCATAA	804.484439907199	0.180581684810707
CGAGTCAGCA	804.561869974964	0.110260105940938
AATGACGTCT	804.568918127665	0.158285632780606
ATGAGTTGTC	804.608764695334	0.13763677929898
AGTCAATGAC	804.615129944981	0.186479366704754
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AAAAGATGAC	805.049407767238	0.160101874627845
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AAGTCACTGA	805.361537325901	0.178412788512568
CAGTAGTCAC	805.421158309751	0.234174682571837
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GTGGGAGTCA	806.359836689045	0.188063575270107
TGCTGACACA	806.762614757435	0.232755481910126
GTCATGTCAC	806.940858288716	0.178491192806326
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AAGGGTCACT	807.52501672135	0.0671248816306536
CAGATGACGC	807.935649218613	0.238982414388793
GTAGATGACT	808.412721524959	0.258981123547839
GTCATCCATA	808.43263783884	0.127981336103851
ATGACAAAGC	808.951025112058	0.14655381442644
AATGAGTAGT	809.262989500634	0.149124304693935
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CACTAGTCAC	810.442481818	0.147904850154754
GCCTATGACA	810.46905529671	0.244913846564769
AAGCTGTCAT	810.931551027514	0.191506627931281
GTCATGACCA	811.113598581613	0.145037667248261
CTAGATGACT	811.292512608962	0.156770115229801
ATCATGTCAT	811.649027276315	0.170780332327302
GTGACAAATG	811.792381900688	0.15273972194976
AGTATGACGG	811.89457559116	0.148360311721672
ACCCATGACT	812.024151502563	0.145639557376978
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CACGATGACA	812.722803560117	0.177549738466624
ATGACAGTGA	812.784849039429	0.162081901610658
ATATTGTCAC	813.086610448294	0.170244563215339
GATTAGTCGT	813.308588264293	0.116781844184172
GCAGACTCAC	813.703198825685	0.131038055328128

ACCGTGA	813.862170611892	0.12320504770406
CTCA	814.307855399541	0.189845656898162
ACATTGTCAT	814.360216529494	0.129066384142867
AGACATGACT	814.409369139543	0.136801854637514
CGCTGTCATC	814.695133969324	0.173075559273793
ATAGTCAGAG	814.819707173813	0.138571351221908
ATGACATTAC	814.937707985052	0.106299693582155
AGTCACTCAA	814.954607711929	0.243875816693807
GTGTGTCAAA	815.228158126121	0.175866018019264
GCCAAGTCAC	815.2935810225	0.188690852778549
AAACTCGTCA	815.78132442638	0.2079737236952
GTCTATGACA	815.952849551625	0.248887629512009
GTGTCACCTA	816.366659551181	0.186006289538085
GACTCACACC	816.422679694471	0.139516041309928
ATGCTGTCAC	816.470505406486	0.152495051518826
AATTACGTAA	817.72055578625	0.206653831076508
CCATGACGTA	817.939555483746	0.158004218774212
ACCGTCATAA	818.104391890262	0.18347944085454
TTAGTCAATC	818.303668537391	0.230671409820246
ATGACGGACA	818.54474014694	0.183214891718851
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AATGAGTACG	819.773355619106	0.190811800990401
GTCATTGTCA	819.91749760875	0.13157227170179
ATGTGACAAA	820.330832237193	0.151846762080527
GCATGACCCA	820.368747279571	0.196355410170696
GGGTGACCAA	820.446374850239	0.125570722302224
CCATTACTCA	820.771692295999	0.143005260270894
TAAGTCACTG	820.821375842356	0.158282358611903
CCCTGTCATA	821.179444153648	0.205681236514555
TCGTCATCAA	821.413058360022	0.156998062835488
AGTTCGTCAT	821.732652007256	0.134674788532015
TCCTGACGCA	821.744430445644	0.094899074857938
ACGTCACCTCA	821.878857835332	0.148677696441257
ATGACGTTAA	821.934776831193	0.188193392365552
AAAGTGAGTC	821.960080118147	0.150730118811282
ATCGTGTAC	821.987112097892	0.120473174066562
TGACATGACA	822.373849278101	0.0630554256548687
ATGAGCAAAA	822.604799876974	0.114189462222882
GAGGATGACA	822.672550435136	0.0950966124774102
AAACCAGTCA	823.159210677138	0.269455225415191
GTAACGTAC	823.186047518602	0.132040428120598
AGAAAGTCAT	823.276246995618	0.240243926018081
ATGACAATAA	823.721767540726	0.177881996999949
GAGTGACCAA	824.137293225567	0.165462943117727
CGTTGACACA	824.304441589279	0.199201094912944
TGACGACTCA	825.856164251311	0.1948130723242
ATGACGTTGA	825.893137308913	0.166996809578016
GAGTCAATGA	826.29013649865	0.162892391382987
AGAGTCACTT	826.776426187869	0.2685188010591
TACACGTAAT	826.991895896911	0.146157961328751
ACCTACTCAT	827.242364913574	0.149600625020241
AGACTCACAC	827.922034168654	0.0918313647310675
AAGACGTACAT	828.037025360702	0.120604533643074
ATGACCGAAA	828.081895883024	0.224344585491079

ACATACTCAT	828.181886100803	0.157835507362109
GATGACAGTA	829.025671395993	0.109207145773595
CACGTGTCAC	829.170336852516	0.117097354687934
AGTCACTCCG	829.277919363429	0.176421095977484
AGGGTATGAC	829.344082483865	0.13403449209464
ATGATGCAAC	830.570545075454	0.171316005878212
AGCTAGTCAT	830.586921098273	0.201042445655392
GGTGACGCCA	830.887322810276	0.13240442800882
ACATGTCATG	831.015000032675	0.206565849693838
GGCAGTCACC	831.085367967153	0.196871685863925
ATACTGACTC	831.325757993172	0.124817284558259
AGTTTGTAC	831.469439415317	0.171019477813762
CGCGACTCAC	831.57607964859	0.174138199236778
GGCTAGTCAC	831.968160351849	0.174411564792533
ACGTGACTGC	832.123388124319	0.192634850117245
CAGGTATGAC	832.644650978863	0.0618770965220411
ATGAATAATA	832.924577929345	0.156203084126983
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CTAGTCAGAG	833.950901891073	0.166535191985625
TGACGTATCA	834.452651657475	0.256027813520767
ATGAGTATGC	834.526491727715	0.162602295900249
GCAGTGTCAC	834.72102051226	0.112217875123688
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GTGCGTCAAA	834.87695637256	0.158263102180784
ACCGTGTGAT	835.149024694366	0.122012647900385
GTGAATCAAC	836.162134337203	0.123736675578379
GAGTCAGTAC	836.439636508627	0.16170081667377
ATGACGCCGA	836.501193123116	0.220699579307102
AGTCACTCTG	837.00936542588	0.153221707328271
TATGATGCAA	837.030281474559	0.134813193311378
ACTTGTCACA	837.125904483324	0.133519233367733
GAGAGTCAGC	837.55351733197	0.16290580786127
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CGCTGTCATA	838.258332060783	0.154342226203882
AGTCAGTAAT	839.799302796961	0.137082264158907
GCGTCATGCA	839.856268921497	0.175823306318954
GATGACCGAA	839.922273449277	0.190293571127125
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AATTTGTCAC	839.950833666009	0.184185712004687
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AAGATTCATA	841.521271614753	0.128135833946342
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AAGATATGAC	841.966616547467	0.112123589790786
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AAGACTCAGG	842.181885383393	0.103499268605763
AGCACGTAC	842.294817714936	0.0956526882131681

AATTTGCTCA	842.467743192564	0.176778550839111
ATGAATAATC	842.537244671319	0.122945232909813
AAGTTATGAC	842.613392130575	0.187140440344114
ATCCGTCAGA	842.630523823555	0.142618306477763
ATATGAGCAA	842.80716016483	0.117599358958908
AAGACTCTTA	843.073551837164	0.113392272163697
GGAAATGACT	843.227858622775	0.153298318528773
CGTCATTGTA	843.457071945282	0.109138406815083
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GTCATCCGTA	844.018428944825	0.197113894196055
ATGATATGAC	844.480242376268	0.162140327177741
GCCGATGACA	844.56606355528	0.2253033529682
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GGTGACCCAA	847.770878579812	0.154562373423521
ATGACGATGC	849.129988595681	0.247267642904624
GACCGAGTCA	849.272114999447	0.222631529472759
CAGCAGTCAC	849.424836457299	0.0550542361077132
CTGACTATGA	849.677937093167	0.152264391308491
CACAGTCACG	850.236379317726	0.14112640175448
AGAAGATGAC	850.365876930698	0.121149071976995
TCGTCACCTCA	851.000600916023	0.129353253954731
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AGTGTCACAA	852.058316994271	0.158326319187944
AGTCACTTCG	852.218192793164	0.124348468329686
GTGCGAGTCA	852.305237198663	0.122804711264857
ATGAATCTTA	852.361415065441	0.103054478873597
ATGACGCCAA	852.672268920353	0.281793648505344
GTGACACCGA	852.710854841682	0.138221332030225
TCGTGCGTCA	852.853127030861	0.0433671137136602
ATGACCACTA	853.645952067934	0.146764619617306
TCAGTCAACA	854.384071528771	0.133963153331888
GTGAGCCACA	854.391348440784	0.106392041383322
TAGACTCAGA	854.635106970488	0.124201557936312
GCCTGACGCA	854.705560416983	0.150766139679649
ATGACATTTA	854.716700709042	0.134848672775831
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ATTATGAGTA	855.325952437601	0.14771411278372
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ATGCGTCAAG	856.881672826716	0.178511403633571

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AATGACGTCG	863.638259244321	0.183121584817535
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CAGTCACGAC	865.051285920138	0.149844491971753
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CAGGATGACA	866.716356263068	0.152516331146129
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GCCACGTCAA	868.257535380144	0.113106961279889
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AAACACGTCA	868.865912531375	0.155701136273952
GACGTATGAC	869.055120761004	0.13409081782102
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AATATATGAC	870.291698603649	0.119910336361609
GAGTCAATGC	870.448380322398	0.131824888597867
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GATTACGCAA	870.964270349302	0.180192584979047
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AACAGTCAGG	871.501296716616	0.121788062636511
ATGACAATGC	871.850293384732	0.194336925142506
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TGAGTCGGCA	872.131701273444	0.128129433208342
AGAAATGACA	872.29818010157	0.12588681750653
AATGTGACGC	872.300978246995	0.147850957168372
CACAGTCACT	872.308107948261	0.149237130029961
ACCGTCATAT	872.461232468494	0.125904481156104
ATGAGTCCGA	872.537623958181	0.0912080503899803
AATCGGTGAC	872.676331297264	0.147035314102886
GTCGATGACA	872.847283409496	0.14094311640465
CAAGTCATCC	873.121925398696	0.0738304030283024
TGACGTGTAA	873.125378508306	0.164724283437517
CGATGACCGA	873.239895141858	0.216983305141911
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ATGACAGTCA	873.575908160685	0.106597197198021
ACTCACTCAT	873.676684563663	0.118917705580277
AGCATGACGC	873.754344733144	0.131305171575083
CATTGACACA	873.822573074477	0.123361864338356
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TCTTGACTAA	874.018778858123	0.177631651091625
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ATGACGACGA	874.371892058561	0.174550505681943
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GAACTGGTCA	876.757304123087	0.0959326723205757
ACCAAGTCAC	876.937676347746	0.125235268505579
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GTGACTAGCA	877.72909470845	0.145727509417138
GACAGTCAGA	877.780950533611	0.1305480792122
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GGTAAGTCAC	878.301484392633	0.143286005084636

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AGTCATGGTG	880.062730975378	0.0862666863418825
AAGCTATGAC	880.222818540743	0.0696089103302621
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GTGAGTACTA	921.916239979109	0.0780815385560701
CTGACGTGAC	921.951924392384	0.0883277804863905
GGTTGTGTCA	922.039809553086	0.0774795930338928
ATGACGTGCG	922.163978881142	0.0924068670212439
GAGTGACAAA	922.189350275671	0.0819934590806914
AGTCACCTCA	922.246681674372	0.0765481418630749
GTGACACGCA	922.288809860815	0.103653289654279
AGTGACGCGC	922.408011812132	0.106884262168646
TGTGTCAAAA	922.469892989339	0.0796893864997746
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AATATGTGAC	922.507481482956	0.0510909937906872
AGATACGTCA	922.525851215512	0.0928408390466267
CATTTGCTCA	922.776664773562	0.096962346445008
AGATTATGAC	922.820636567256	0.0889999974750178
ATAAGATGAC	923.060318443802	0.0790833725212855
AATGTATCAC	923.516259843448	0.0752396235437606
GATGACAAGA	923.683505413841	0.0852305593663844
ATGATTCGAC	923.76833283894	0.0823025226695714
GATATATGAC	923.785072078928	0.0870390729795693
CCTAATGACG	924.091887028527	0.0716414181218211
AGTGACATAT	924.506850903907	0.0860717822660128
CCAAATGACA	924.57880790718	0.0776001077650785
AATCTGTGAC	924.86780865972	0.0800095803213833
ATCGAATGAC	925.169752886424	0.10068547904803
CCCTGACGCA	925.179940271549	0.087065047662131
CGGACTCATC	925.512525846937	0.0947691933796404
GTCATTTGCA	925.540425550479	0.0807061797073512
AAAATATGAC	925.549120215779	0.130064146266801
AGTCACGGAA	925.552958111272	0.1071440232058
GTGAGTCCAA	925.583994226102	0.082077480620793

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ACAGACTCAC	926.174048446095	0.100395539752111
GATTTTCGTA	926.212990655084	0.0810202444457178
AGGGGTCATA	926.300067874059	0.0703324847122427
CTGACTCGGA	926.554890453147	0.0925868166889031
ACGGCGTCAT	926.556556764543	0.0737098151851339
AAGGGTCAGA	926.698792623905	0.0792444483632943
CAATTACGCA	926.907142203682	0.0776578741374884
TCGGTCATCA	927.029065683769	0.128572432090625
GTGAGCAAGA	927.238725534239	0.0770945926362095
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ATTAGCAATA	927.312690002001	0.103554412864065
GTCAGATGAC	927.35936196028	0.0715802778853484
ATACGGTGAC	927.656386452734	0.0896142562957676
GATGGAGTCA	927.718668035377	0.0760120116008367
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ATTGCTAATA	927.924988449021	0.100877053980136
ATGACCCTGA	927.980717608866	0.0982957902350647
CGTCATTGCA	928.104293672501	0.0866338455612045
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GTCAGCGTCA	928.512717543211	0.0778754673802834
AGTCATGGGA	928.606524467531	0.102567381763042
AGTCACGCCA	928.647291314812	0.0705718162561375
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GTCATATCTA	928.935132929185	0.0785663457301303
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GTCACACATA	931.491469509639	0.0700965844243661
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ATGTCACCAC	931.661076147223	0.0776670447446686
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AAGAGTAATG	932.17710392516	0.0687609214661248

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GTACTIONGCA	932.736515165191	0.0882981733811496
GACTAATGAC	932.788799723072	0.0963692453177717
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AGTCAGTGAC	933.273312997392	0.113605858961934
AGTCAGACAT	933.42006130328	0.0716505904153534
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ATGTCATTTT	933.859139069074	0.0963512630407691
GTCATCGCAA	933.882766587838	0.0869071984459867
GGAAAATGAC	933.978289310244	0.0774382362607104
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AGTGGATGAC	934.015896788314	0.0770605434277998
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GTGACAGGTA	934.299997367443	0.0637255784462157
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AAGTCATGGG	934.442347460388	0.0879461036791868
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GTCATTACTA	935.222642112361	0.0766550959110514
CGTCATTTAG	935.429213073699	0.0446927924045774
AGTCAGAAGC	935.604155982583	0.0620501468109996
ATGAGCCAAC	935.659224959631	0.0719923007481695
AGTCACCCCA	935.733715895706	0.1079486256669
CATAATGACA	935.838927872609	0.0752341171088693
CGCGTCACTA	935.901489442644	0.0709209912093874
GTAATATGAC	935.99820913553	0.0837863733627168
GAAATATGAC	936.084277690126	0.0664770347645225
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AGGTTATGAC	936.760154474743	0.0776125262604445
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CGTCATTATA	937.43432303174	0.0618732902510421
GATGACTTGC	937.46690234556	0.0779740068170504
AGTCACTCTA	937.712800080696	0.0867390951851242
ACGGTCATAC	937.81082352598	0.0664613199447838
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TGACTCCCCA	938.203153188461	0.0837296582319131
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GACTAATACC	938.416738105704	0.08438912375762
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ACGTCACATA	938.596078765903	0.0687173831326152
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TGACAAATCA	939.256441941254	0.0835929033168531
GTATGATGCA	939.380807190284	0.0658016024592182
GACCCAGTCA	939.563078638223	0.0797574056716203
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GAACCAGTCA	939.841514209362	0.0794410324038882
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AAGAAATGAC	940.350395872716	0.0730947780151964
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GTCACACCTA	940.873816033149	0.0705181591084871
GAACTGACTC	940.993674008493	0.0822172442302573
CAGGGATGAC	941.270932239928	0.0656509442520237
CGTGGTCACA	941.293796427087	0.0832258761757309
CAGACTCACC	941.356028683283	0.0589961053320988
AATGAATGAC	941.449763039084	0.086417235029171
GAGTCAGGCC	941.606840915466	0.0618649734360066
AAGGTGACAC	941.623067139289	0.056155602777289
ATTAGTAAAT	941.66566662779	0.0576435784212483
GTCAGTAATA	941.675105732144	0.0856904033417156
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AGTGAATGAC	941.829494647675	0.0761524313990409
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TCCAATGACA	941.881100036752	0.0854082260416248
ATGACATTC	941.922255402915	0.0572786182401704
CAGTGACACG	941.967160268923	0.092111524742193
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TGACTCGGAA	942.456526166307	0.0777342113640086
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GGCGCGTCAC	942.636303906367	0.09081284774239
GAGTCAGGGC	943.080603835091	0.0556066482480719
CGTCATCTGA	943.165462917981	0.0999524508608969
CCCTGTCATC	943.207809767125	0.0604339255906589
ATGAGTAGAC	943.270797365486	0.0576360158826477
GTTAGTCTTA	943.400006139029	0.105908641315961
CCCGTCATCG	943.413727426071	0.0543614465501532
CGTCATTA	943.752668590712	0.0744791523147296
GAACTATGAC	943.977657170158	0.0804021482858832
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AAGGTGTGAC	945.703037856813	0.0545496748468395
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AAAAGGTGAC	946.310709579064	0.0755141110952605
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ATTATTAGTC	947.379278235678	0.0702537590740066
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ATGACAGGAC	948.507462280603	0.0537596973222543
CACGTATGAC	948.546435901851	0.0612510468788462
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GTCATCCAAC	948.74519026193	0.0524141454571265
ATCGAATCAT	949.179771957437	0.0505360944761914
CACGTCACTG	949.213453716862	0.038872862383318
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ATCGTCATGC	950.317845283584	0.0687581816219879
GTGACAATA	950.529195757216	0.0718333463784407
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CTCGACTCAC	961.44266423071	0.0504888383650224
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GATGAGTAGA	961.63589212461	0.0492663431132062
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GATGACAAGC	963.383124275187	0.0442701365908139
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GTCTGACCCA	963.713420707881	0.0673100146663258
AGGAGTAATA	963.745605258283	0.0439661045683818
ATGTATCACA	964.019188798947	0.0703696273148769
AAGACTAACA	964.020538606917	0.039862689275526
AGCGAGTCAG	964.055590174318	0.0460019533166509
ATGATGTGTA	964.080080239912	0.0618561255775177
GTCATCGCTA	964.243196563693	0.0454306505811072
GAGTCAGGAA	964.408837731979	0.036916344328508
AAGATTCATC	964.940008564105	0.0348829943975248
ACGTCATGCG	965.038709911414	0.0740923637382304
GTCATAATGA	965.060361618601	0.0484862912223907
ACGAGATGAC	965.627568757786	0.0625667186060416
ACTCCGTCAC	965.72192428845	0.0385429374980696
AAGTGACGAA	965.768438116905	0.0361294437558686
AAGAGATGAC	965.806215956745	0.0457752503753452
GAATCATGAC	965.845893234536	0.0334379350322649
GCTATGTCAC	966.021688158088	0.0494613676517929
CGTCATTTAC	966.088082086873	0.0562961001872573
AGTGTCACGC	966.185893209596	0.0354390891817197
ATGAGTAGGA	966.380903807351	0.0366909952705009
AACAGTCAAT	966.554599593021	0.0332312407541986
GTGTCATGGA	966.956729758368	0.0457523700234991
ATGACGACGC	967.037358276805	0.0440219923424273
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CGACGTCACA	967.207014842404	0.0332736378616073
GCGTCACATA	967.243977065052	0.0452122574449417
CTCTGACGAA	967.248143358642	0.0389591018104539
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ACAAATGACA	967.831382229495	0.033220178190707
AGGGAATGAC	968.200868990056	0.0458961242698452
AGTCTGTAC	968.214879987876	0.0362129269155865
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CGTCATTAGA	968.521729782011	0.033397841899265
ACCGAGTCAA	968.698449181651	0.0511765003168678
ACGTGTGACG	968.98036338994	0.0518467284051949
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TGAATGACCA	971.31972591443	0.0286289979191866
ACCGACTAAT	971.46379388031	0.0518025131849897
ATTACACAAT	971.539810035413	0.0322287669398716
CTTGAGTCA	972.209862358868	0.0328373092427751
ACATGACCCA	972.495337103143	0.0395192912864958
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GTATGATACA	973.10141962688	0.0304696286113974
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CATGACAGAG	973.831717262409	0.0364479713028178
ATGACAGGGA	974.406314096678	0.0391624746324067
GACATATGAC	974.908446955008	0.0346998084384411
AGAGAATGAC	975.428029406775	0.0246431814700879
ACACATCATC	975.549849117631	0.0301516791794719
ACAGTCAGCG	975.948395961393	0.0336202872441964
ACGGATGAGT	976.113749938801	0.0309587705605117
ACGACTCAAT	976.225838773976	0.028898642271844
ACATGATGAC	976.839426456566	0.0523962567604267
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GTCATAAATA	978.326142323803	0.0477186300401596
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TGACCCATCA	979.502882886794	0.0206004404906214
CCCGTCATCA	979.820353249827	0.021426231313826
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GAGTGACATA	983.056919409468	0.0211546618662935
AGATCTGACT	983.430031208903	0.0373614085013792
GGCGGATGAC	983.463621435254	0.0372850839877921
ACTATTACTC	983.548178801748	0.0175795283570764

AGCCGTCATA	984.236096332006	0.0275293587254809
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ACTCATTCTA	986.06855641836	0.0264981347434169
AAGTCACTTG	986.348213266296	0.013098772069098
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GTCACCGATA	987.433938161081	0.022632396754918
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TATGACTCATC	11.5909498437653	0.049327848923901
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GTATGACTCAC	12.61592674519	0.113510159941361
TATGAGTCATC	13.1094058785463	0.372839957945775
TGATGAGTCAT	13.7202908722633	0.08112136469454
ATATGAGTCAC	13.9226549768285	0.305120796767825
GTATGAGTCAT	14.0558827455612	0.323503055731411
GTGAGTCATCA	14.07790898316	0.209127509744059
CATGAGTCATA	14.3951134375681	0.19542249860683
TTATGACTCAC	14.4349661778776	0.16751770523474
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GGATGACTCAT	14.6514582985218	0.335534785446037
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ACATGAGTCAT	15.0681245678832	0.218175306328856
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TATGAGTCATT	15.244418492482	0.392568923026674
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ATGACTCATCC	15.706272602876	0.22700228245418
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ATGACTCACTA	15.8150607533164	0.0616739596349203
CTATGACTCAT	16.0439499450551	0.327980587528124
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ATGACTCATCG	16.473314004392	0.425262887793627
CATGAGTCATC	16.6055338858753	0.210382652838012
GGTGACTCACA	16.6380375144686	0.187187943389972
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CTGTGACTCAT	16.7295616639952	0.383684218834906
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AGGTGAGTCAT	16.9964323249319	0.197300604661936
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GATATGACTCA	17.1980001103569	0.354461546427163
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GTCTGACTCAT	19.1416558938779	0.108992601769377
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GAGTGACTCAT	19.5077821746626	0.277519336663418

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GAATGACTCAT	20.5009627433876	0.469653704354612
TATGACTAATC	21.2121997042233	0.126206447017178
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TAGATGAGTCA	26.7181709533448	0.405468097767769
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CATGAGTCACC	32.6881187952344	0.718316919080508
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GAAGAGTCATA	33.8342239721312	0.234443189005157
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GTTAGTCATAC	34.759003349688	0.101482907246437
TTAAGAGTCAT	34.8994072998758	0.325276600333368
ATAAGAGTCAT	34.9178069171108	0.267380926838383
TCAATGACTCA	35.0767046345932	0.847689132558036
GTGACTAATCT	35.1538554267356	0.278125263024569
CATGACTCAAT	35.176199566247	0.252363582130176
TAATGACTAAT	35.3002603296413	0.480986414732185
GTGACTAATTG	35.3241282087982	0.22168799010914
TGAGTCACCGT	35.4965494884205	0.274645809491926
ACAATGAGTCA	35.5030227604734	0.386859644950043
GTGACTCAACT	35.6059262341902	0.222994033528903
TGACTCACATT	35.62085926135	0.0996395824798764
GAATGAGTCAA	35.7436818833574	0.311007633822601
TCCTGAGTCAT	36.0838255363562	0.320552115873566
AAGAGTCATAG	36.2573267251363	0.32507326444952
GTGACTCAACG	36.4668136963743	0.346673886200642
TTGTGACTCAC	36.7338682614834	0.968225163795011
AAGATGAGTCA	36.7397130637108	0.201406596336819
CAAATGACTCA	36.7804423706172	0.46958450273675
TAAATGAGTCA	36.9112830592497	0.325571986904872
TATATGACTCA	36.9298668634637	0.972617046439878
TCTGACTCACA	37.0175305398943	0.480944212451947
CACATGAGTCA	37.1651557580608	0.25388396388167
CGAGTGAGTCA	37.3059777894898	0.110040781850376
TATGTGACTCA	37.3209655267293	0.639024781150764
ATGTGACTCAG	37.3705370017493	0.185153206580427
TTAGTGACTCA	37.4379693223765	0.676627595122495
CAATGAGTCAG	37.5972984349686	0.434747363496098
TGAATGACTCA	37.6924328506056	0.837109714698585
ACTGAGTCATG	37.7041576300702	0.320285193256654
AAGAGTCATAT	37.7564160563945	0.331982980264891
CATGACTAATA	37.7961694187942	0.280421708575485
CAAATGAGTCA	37.8344866202346	0.163012624351423
ATGACTGATTC	37.8815899653332	0.102053917551453
ATATGAGTCAT	38.0697502949065	1.89878972484197
CGGTGAGTCAG	38.3928961399041	0.0783428175976444
AAAATGACTCA	38.4117445055657	0.579302286806251
TAATGAGTCAA	38.5748888470484	0.244882599440534
GAATGAGTCAG	38.5914642384588	0.223557049143707
ATGACTAATGT	38.6576647046423	0.47346024543015

AGTGACTAATT	38.7326659277098	0.338413910493322
ATTTAGTCATA	38.8081854985903	0.251459492670455
AAGTGACTCAC	38.8181464947006	0.688013473937639
CATGAGTCATT	38.8316998323802	1.58651261554422
TTGTGACTAAT	38.8727809220124	0.352134004475632
AAGAGTCATCA	38.9160181505143	0.225723858315402
TATGACTGATC	38.9649156122108	0.290313065095742
AAAGAGTCATA	39.1649046694451	0.192228948109742
TGTGACTCATT	39.1727860784078	1.91321909070792
GTGACTAATTA	39.2126877442527	0.308718217777185
CTATGAGTCAA	39.2258037780198	0.271302393294843
TGAGTACCAT	39.3634358787855	0.335177761338896
GCCATGACTCA	39.3688717764153	0.482301435889213
CGGATGAGTCA	39.4277531232064	0.493072458376388
GTGACTCATTG	39.5628992533778	1.82540578151074
TAAGTGACTCA	39.6072396928216	0.149196955690925
TTAATGAGTCA	39.6139546951234	0.614426819632297
AAAAGAGTCAT	39.6310307231784	0.201610040059762
GGTGAGTCAAC	39.6387821970405	0.364163471384219
ATGATGAGTCA	39.6525664071683	0.36704159157757
AGTTAGTCATA	39.6686110668835	0.279071901567941
CAGGTGAGTCA	39.7595704569906	0.266474352408008
AGATGAGTCAA	39.9130492665877	0.37998543104673
AAGAGTCACAC	39.9245638811406	0.236258350014489
ATCATGACTCA	39.9511233055947	0.422280336516461
TGTGACTCAAT	40.0528324371112	0.233232900984807
GTGAGTCAGCC	40.086658187176	0.304404837342386
TATTACTCATA	40.2445040055268	0.217715809561255
AGTGACTCAGC	40.244957970216	0.00299409299235737
TTCTGAGTCAT	40.3352536842344	1.50364525651107
TATGACTGATT	40.4717455988571	0.507370731023215
GTGACTCAATG	40.491673486616	0.416278684115045
ACTGAGTCATA	40.7241433622286	0.412842904095035
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AATGAGTCACT	41.0957481040433	1.27253561606551
GAGATGAGTCA	41.2715281730975	0.309120040433305
CTCGTGAGTCA	41.3431635055355	0.651600146056026
AGTGACTAATC	41.367178510254	0.632955338209518
TAAGAGTCACA	41.4151199388593	0.403766825311687
CTATGACTAAT	41.5008773353881	0.934004777000787
ATGACTCAAAT	41.5101779307933	0.262264193527811
CCATGACTAAT	41.5554984587913	0.262262691115095
CGTGAGTCAGA	41.5900743745312	0.300850559201579
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TGACTCACAGT	41.6749786669695	0.170347319879581
AAAGAGTCATT	41.6776174473475	0.222026733347943
GGTGACTCATC	41.7756326066938	1.83519313935719
CGTGACTAATC	41.8271756079541	0.300164469723958
CTGAGTCATAA	41.9247533524831	0.853295038748668
GTTGACTCACA	42.04130622696	0.295458082954054
GATGACTCAAC	42.1922455530262	0.282557223680852
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ACTGAGTCATC	42.2644046705812	0.610299592228294
CTGAGTCATAG	42.4810844002165	0.51277584091781

ATGACTAACAG	42.5806688122895	0.297432918473692
ATCTGAGTCAT	42.6815320519588	0.414390697082149
TAAGAGTCATG	42.7397426955278	0.237088798167236
GTGAGTCAGAT	42.8891655197058	0.438875439796002
AAGAGTCATTG	42.9404937567	0.256319035941316
GTAAGAGTCAC	43.0172446400847	0.262011541887424
TGAGTCATCCT	43.0376463436772	0.290348311965774
TATGACACATT	43.0882839175514	0.369890425438141
GACATGACTCA	43.1365902906184	0.743478220930486
AAGAGTCATCC	43.2536496114515	0.279639046282227
TAAGTGAGTCA	43.3650188408825	0.240123631833417
CATGAGTCAAC	43.39054067449	0.261241903708859
TATGACTGATA	43.4362919384416	0.252461922200496
CGAAGAGTCAT	43.5456963140364	0.215495965455387
TTGACTCACAT	43.5565395257344	0.0959596836379781
TTTGACTCACA	43.7063479832624	0.0920328207677173
TGATGACTAAC	43.9654505409959	0.267340432659069
TCGGTGAGTCA	44.0595937875254	0.259212885290353
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TGTGACTCAGC	44.4470164789749	0.461836010851646
GTCATGAGTCA	44.491418062626	0.321588837792013
TGACTCACAGG	44.5466498575622	0.344898019809707
GGTGACTCAC	44.5660816821469	0.694756367310341
ATAAGAGTCAC	44.5912015088544	0.139284554692431
AAAGTGAGTCA	44.6301275527756	0.328193311839548
AAATGACTCAT	44.6405046307273	1.60904606038017
GAAGAGTCATC	44.7676901339739	0.254577014606764
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AGTGAGTCAGC	45.0332446810109	0.359100156535891
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GGTGACTCAAA	45.252101232091	0.343917978783067
AAGAGTCACCG	45.3334102060155	0.204183629150767
AAGAGTCATCT	45.4103351037049	0.359257829178139
GGTGACTCAAT	45.4361154699233	0.336571415223096
TGTTAGTCACC	45.6363184652924	0.35967489274444
TATGACGCATC	45.6579845130956	0.279886658920756
GATGAGTCAGG	45.7147046045753	0.394767125984435
TGTGACTCACA	45.7522152325906	1.60896371812692
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TAATAGTCATA	45.880251281046	0.152805596386006
CCAGTGAGTCA	45.9317653078278	0.288646532289734
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CCTGAGTCATA	46.4008510824291	0.619188074000243
TGTGAGTCATC	46.5219428010461	1.19550614369097
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AAGAGTCATTT	46.6784529722265	0.283832276141446
TGACTCACACG	46.7147051636689	0.375281602409428
AAAATGAGTCA	46.7473304807333	0.801621886105584
GATGACTAACC	46.8191053213643	0.333803915224108
TACATGACTCA	47.0173954262111	0.907880307679231
AAGAGTCATGC	47.1592907794863	0.344885249420324
CATGAGTCAAT	47.2856340835764	0.164987793109203
GGTGAGTCAAT	47.3642040927711	0.24586532407424
GAATGACTCAA	47.4611280187414	0.571657426624774
GATTACTCATC	47.5385176552109	0.299400122588316
CAATGAGTCAA	47.5823050125509	0.435493070391556
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GTGAGTCAGCG	48.1574441178501	0.378567958106608
GTGAGTCAGTC	48.1858613358831	0.169230807138739
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GATGACTAAAT	48.386745534975	0.546537181749601
TCCATGAGTCA	48.5373164981392	0.19680087915805
TATGAGTCAAA	48.5627592494141	0.414714469081836
AAGAGTCACAT	48.5748165826712	0.28117262839221
CACGTGACTCA	48.5919432832038	0.119662315666245
ACGTGACTCAC	48.6058756041972	1.06915597975215
TGAGTGAGTCA	48.6192549072802	0.27228723202477
TTAGTCATAAC	48.6854097325805	0.146489136395483
AAGAGTCATTC	48.8600592494055	0.495255146715178
TGTTAGTCACA	48.8971343272585	0.253408560427488
ACAGTGAGTCA	49.0741997194706	0.244966492069322
AAGAGTCATTA	49.2075419918881	0.360242842798433
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GTGACTCAATT	49.5574843899939	0.382854194589937
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GATGACTAACA	49.7029835862665	0.199953256907519
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GATGAGTCAAA	49.8610426269839	1.0401351527779
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AGTGAGTCAGT	50.1266897980218	0.169024959404913
TGTATGAGTCA	50.2001958918264	1.70478461076142
TCTGTGACTCA	50.2771035230412	0.817646788664367
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GATGAGTCAAG	50.4851675993904	0.37209330627574
AAGAGTCATGA	50.6004545764632	0.358915043700334
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GTGACTCAATC	50.84622148155	0.635101000101169
GTGACTCAAAA	50.8571695400064	0.319224797929941

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CAGTGACTCAG	51.1550049777962	0.196594391021132
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CATGAGTCAGT	51.4134703764541	0.379980716376602
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GTCATGACTCA	51.4694483903638	0.843165318834984
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GAGTGAGTCAG	51.5986306967208	0.384840064586352
AAGAGTCATGG	51.70587135577	0.251033042367413
TGAAGAGTCAT	51.7285878129529	0.184021936776093
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ATTCTGAGTCA	52.1752132357842	0.170038470347434
AAGAGTCACAG	52.2280166931569	0.286123319331207
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TCTTAGTCATA	52.3447688844822	0.207877756101389
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GTGAGTCAGTG	52.7202035827005	0.170366059976216
TCATGACTCAG	52.7910955692564	0.303457208976396
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AGGAGTCATAC	52.985606659506	0.241175797141673
GAAGAGTCACC	53.0219190458642	0.275278387601417
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CCAATTAGTCA	53.2336270409875	0.246753285957335
GTGACTCAGTG	53.2444070535837	0.339487229171763
TGACTCACAGC	53.2735261520387	0.351747374969261
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GCGATTAGTCA	53.5380421973107	0.17759856695307
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ACTATTAGTCA	53.7166384628419	0.394209696983549
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AAAGAGTCACC	53.9460749248455	0.22062541923266
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GTAGAGTCATC	54.0607683922949	0.314622696865479
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GAAGAGTCACA	55.3773319070947	0.209112391536158
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GGATTAGTCAG	56.5016319115217	0.267732832574774
AAATAGTCATC	56.5802928050528	0.0297450523106352
CCGCTGAGTCA	56.7506344325267	0.949363835437761
GATGACACATC	56.8245902802662	0.502624171021726
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CTGAGTCATGT	57.5120924247705	0.543808090649196
TTCATGACTCA	57.7277259304061	0.626675245497826
GCTGAGTCATC	57.7297680423267	0.429324204361602

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GAGGAGTCATA	58.1267835841321	0.214256764660174
ATGACTGATCA	58.1291995170488	0.336357506612722
ATGACACATTT	58.1947101270222	0.361395568513314
ATGACTAACAT	58.2178399169786	0.498742461461993
AGTGACTCAGT	58.2476663061422	0.554552325925422
TGAAGAGTCAC	58.3209560985648	0.334636901453164
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TATGACTCAAG	58.5075002044427	0.861118340965653
CTATGACGCAT	58.5852820923982	0.268753068843341
TGAGTCACCTC	58.6599623548516	0.388734400104848
GTGACTCAGCG	58.702066388609	0.489938815330427
ATGACACATTC	58.7252348863981	0.2363163061648
ATGACTCGTAC	58.7808912404094	0.328748915757303
AAATGACTAAT	58.8083752361267	0.815125635868505
CATGACTAATC	58.8289055013164	0.526802216224314
GGTGAGTCACT	58.9421501881135	0.388808898258476
TCATGAGTCAC	59.0601031629383	1.60040040893123
GTATTAGTCAG	59.0611152001794	0.0956704707583373
CGAGTCATACT	59.394459794517	0.56907970813774
AAAGAGTCACG	59.5790454061437	0.0730546676833062
CATGACTCAAG	59.6030498116914	0.241314282979402
GTGATGAGTCA	59.6537245328866	0.368888952342144
GCAATGAGTCA	59.6598959006036	0.671197098706158
GGAATGACTCA	59.7331659114843	0.261326812920494
ATTACTCATAC	59.7620266592875	0.311481091095872
GTGACTGATTC	59.7970040626674	0.558987602356967
GTGAGTCAATT	59.8336673300396	0.358830027356027
TGAGTCATCAC	59.9916658006675	0.588235443444924
AGAGTGACTCA	60.0465766345197	0.624926503586724
AAAGTGACTCA	60.0847702452674	0.44235321682466
CGGGTGAGTCA	60.2178143189936	0.684425546191053
ATGACGCATCG	60.3129713986039	0.127223299377947
AATGACACATA	60.3657269974172	0.156664850374242
AGTGACTCAAT	60.4130319084161	0.338281982151396
AGTATTAGTCA	60.4844540233961	0.577357148197251
AAGGTGAGTCA	60.4963766282662	0.401487857628909
GTGACTAATGT	60.5026753759499	0.550767675759607
AGTGAGTCAAT	60.5724730409604	0.332394572726607
GGTGACTCAGT	60.5739935351961	0.418768029481176
TATTAGTCAGC	60.6055246247371	0.238752427266854
CGATGACACAT	60.6263194046756	0.591546753662195
TGAGTCACCCT	60.6365250236805	0.518721123951224
GTGACGCATAC	60.6805028707982	0.251129590381973
TATGACTGACA	60.7276964326896	0.185935289620605
TTGTTAGTCAC	60.7590790203528	0.222087858065344
ACAAGAGTCAT	60.7743161732338	0.362108859084968
GAATAGTCATA	60.7778473413738	0.226781038464254
TGAGTCATCCA	60.8023142061328	1.11322093165192
TTATTACTCAT	60.8064205404706	0.308851611411857
AGTGTGACTCA	60.8231068013446	0.950694048993911
TATGAGTCAAT	60.9479131811054	1.26186528598269
CGTCTGACTCA	60.9810592768261	0.452620823758028

TGTGACTCAAC	61.0127334417245	1.57744208422233
GTCAGTCATCG	61.0251164423421	0.452368527807923
GTTATGAGTCA	61.0939177735902	1.12138560292191
CGATGAGTCAG	61.1621317244801	1.58409361454822
GATGACTGATC	61.1772131564883	0.680231182355132
TTAAGAGTCAC	61.1872738585392	0.527657461507264
GTTAGTCACAA	61.3226269137914	0.315942253291693
TTATTAGTCAG	61.7003085854779	0.394561293445092
TTTTAGTCATA	61.7700082689674	0.768821954774732
GTGAGTCAAAG	61.7810914602105	0.216000718577085
CTATGACTGAA	61.792160012116	0.19012447675289
AAATAGTCATA	61.907650892494	0.254366874695566
TGGTGAGTCAC	61.9085701140885	1.58186098749764
ACAATTAGTCA	61.9284070317602	0.31485520835318
AGGAGTCATAA	61.9565350471586	0.205517938182313
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AAGACTCATCG	62.1424976063349	0.159538802200503
ATGACTCAACG	62.2585190013901	1.6162378568252
TTGTGACTGAT	62.2728600576378	0.403800687732452
GAATAGTCATC	62.2748947218298	0.366814123049171
GTGAGTCAACA	62.2885361878024	0.487588946059263
ATATTACTCAT	62.2922675177445	0.239422775791074
GGTCTGACTCA	62.4682723587614	0.0960698510849075
GTGTGAGTCAG	62.4852841869033	0.423507793333455
ATGACTAACTC	62.5474526013613	0.393405720980996
GTATGAGTCAA	62.5687368224202	0.894938617714204
CATGACTCAAC	62.6242889328314	0.699681259874595
ATAGAGTCATA	62.6278308683342	0.861021844577158
CGAATTAGTCA	62.6381395412782	0.46633739520237
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AAGAGTCACGT	62.8035783347464	0.223779323326866
GATGACGCATA	62.8288141100669	0.185934128531806
GAGTGACTCAC	62.8301091807525	1.60185894007245
CTATGACACAT	62.8697887392376	0.562530836655475
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TCATGACTCAA	63.0147999078497	0.854564929690164
ATTATGAGTCA	63.0260147824376	1.36590373050572
AATGAGTCACC	63.039181040897	2.00722169870168
AATTACTCATA	63.0873744194814	0.379442581181437
GTCTGACTCAA	63.0990716625077	0.130808974755546
AATAGTCATAA	63.1157094178387	0.389761697950041
ATGACTAACTT	63.1184509860738	0.277841545933669
CTGTGAGTCAG	63.2943862842744	0.189253365199666
CGGTTAGTCAC	63.3515651390547	0.114803647069622
TAATAGTCATC	63.3785537492884	0.349366169997607
ATGACTCATAG	63.3905477963146	1.59483974821438
ATGACTAACAC	63.4292535834596	0.443312324230323
AATAGAGTCAT	63.4554451783489	0.310707121467342
ATGACACATAT	63.46974253917	0.26561560349444
GTCGAGTCATC	63.4890471156159	0.311904545665848
GATTAGTCAGA	63.6815290918503	0.550688165949003
CAGTGACTAAT	63.6831877423188	1.19223694161564

GATGACTCAAG	63.6838136963385	0.66687592796321
CGTGACTGATC	63.7207433259456	0.26537234002158
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ACATGAGTCAG	63.8726830095454	0.26508829286632
GCATGAGTCAA	63.9282712228833	0.258231060216116
CGATGACTAAA	64.0549558404194	0.258317290071773
AAGAGTCACTT	64.146025677523	0.223206216008546
TATTAGTCAGT	64.1690588970324	0.317416562985382
AATGACGCATA	64.195272400717	0.288128054299224
AGAATTAGTCA	64.2089494446031	0.407240878377419
TTTGTGACTCA	64.2143428622435	1.20834620952199
CGTGAGTCAGT	64.2247435820374	0.254960589775405
AAGAGTCACTC	64.2321655068321	0.297235854023959
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GAAATTAGTCA	64.2953152320937	0.374593649370564
GTAATAGTCAT	64.3274633759995	0.497784988779677
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GTGACTGATCC	64.5364195312004	0.302261727458838
TATATTAGTCA	64.5446038069289	0.208448189276981
AATGAGTCAAAA	64.5686478790472	1.54026259208647
ATGAATCATCG	64.5995044888732	0.431248783586866
TGTGACTAATA	64.637350007221	0.492446372861337
TCGTGACTAAT	64.6446813469863	0.673799841335509
ATGACACATCA	64.6866486564642	0.116500238463619
CGTGACTCAAT	64.7959444966758	0.458667511427836
ACATGACTAAT	64.7976073232412	1.00288567230324
ATGACTGAACA	64.8549079703308	0.236754137473062
TGAGTCATCAT	65.0856707450509	1.59978580898512
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TTAGTCATACG	65.1157462758611	0.416943893147484
TAGGTGAGTCA	65.13512655204	0.63008007402652
GATGAGTCAAT	65.1811174981497	1.53169729018306
TCGAGTCATAG	65.2908583076879	0.254935464114655
AATGACACATC	65.3024218165463	0.327609676258966
ATATGACACAT	65.3929912622671	0.477632717627355
ATGACTAAGTT	65.5442301288676	0.419180350751917
ATGACACATCG	65.710993036244	0.380429537216853
CTAATAGTCAT	65.780420570759	0.166006965636757
AGTAGAGTCAT	65.7906612329745	0.276451251520855
GGATGAGTCAG	65.8807273437191	0.310799928228418
GATGTGTCACC	65.885929238564	0.348888997001848
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TGAGTCACCCG	66.316164060925	0.47465570283998
GTATTACTCAC	66.3847805563521	0.41600193473435
CGTGAGTCACC	66.4332330887404	1.19958672092672
GTGAGTCAAAA	66.549358230906	0.434291877542826
AGTGACTGATT	66.6289802161555	0.261308596083319
AAAAGAGTCAC	66.6466862673829	0.272841597647866
ATGACTGATAT	66.6938191390317	0.307700232175904
ATGACTAAGAG	66.7350784382934	0.288912136102215

TATTACTCACC	66.7677629708404	0.336263532257669
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GTATGACACAT	66.9685398820115	0.209263414428919
AGGTGAGTCAG	67.0027419415015	0.665873112541215
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ATTACTCATAA	67.1725708942113	0.0808990324708339
ATGACGCATAT	67.382297602279	0.390741538404324
TTCGAGTCATA	67.3877438591081	0.361799481785198
CGAAGAGTCAC	67.5485290559096	0.316689518735876
GTGACGCATCA	67.6127453735821	0.421031476309688
TCGAGTCATAA	67.6190476014298	0.247653362852078
TCATGACTAAA	67.6646589603597	0.170799510164813
ATTCTGACTCA	67.6737231001377	0.868702839755889
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TATGAATCATC	68.3910352152389	0.150189088532339
ATGAATCATAC	68.4329452648716	0.363558782036244
TGAGTCATCTA	68.4507044872825	1.21117436534589
GAGTGACTAAT	68.4792279150174	0.66551063467407
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AGATGAGTCAT	70.0610796977524	2.31633994284281
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TCTGAGTCAGC	75.466446637206	0.529252027334425
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TGTGACGCATA	76.1254797086966	0.37208438871355
ATTACTCACCG	76.1600595800013	0.168231241067043
ATCGAGTCATA	76.37144860243	0.36299868014261
CCTGAGTCATC	76.4099324108308	0.71471421686241
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TATGTGTCACA	76.6948385923003	0.206978490389068
ATTACTCATTG	76.7266013650666	0.463330428440977
TTAGTCACACG	76.7316458689321	0.623964343150103
TTATTACTCAC	76.734571522189	0.339880373889775
TACGAGTCATA	76.779303099389	0.979012712884735
GATGTGACTCA	76.7821252778023	1.44790625903656
GAATGTGTCAC	76.8069382002922	0.3084722524794
TGATGACTGAA	76.9142201718305	0.503001017203615
GAGTCATCGGC	76.9293814833178	0.992284642348029
ATAGAGTCACA	76.99592697781	0.198559683508721
AAATGACTGAT	77.0904859559177	0.403102101238369
AAGAGTCACTA	77.3014215470576	0.471447886979981
TCTTAGTCACA	77.3874025125231	0.344136547397456
CAAATTAGTCA	77.3958032307367	0.413144440978958
AGTCAGTCATC	77.5000126657768	0.161603115087779
ATAAGACTCAT	77.5981843649529	0.715948325304708
GATGACTGAAC	77.6601297829008	0.331489868012633
CTTCTGACTCA	77.7117730442756	0.217934401918733
AATAGTCACAC	77.7265028904765	0.138640652862878
CGCTGACTCAA	77.7336725483116	0.227036987963975
CGTGACTAATG	77.7751194442749	0.594155195542352
GAGTCATCGTC	77.7892434989058	1.07210579142746
AAGTGACTCAG	77.8606821671647	0.483693707803355
CTATGAATCAT	77.97880614463	0.325071762612414
GTGAGTCAATA	77.998771190097	0.415693427283314
GTGACTAATGA	78.0312635639204	0.917412255457601
AAGACTCATCT	78.0387833327903	0.262146980043309
ATGAATCATCC	78.1737063028075	0.233380005451451
AAGAGTCACCT	78.1952193094919	0.356544300072643
GCATGACACAT	78.2622241001911	0.450311954457565
GGAGTCATACC	78.3239548858533	0.135143976948498
AAATGTGTCAC	78.3389339004927	0.320544425643249
TGAGTCACCCA	78.3415785221878	0.126217395236847
CATGAGTCAGC	78.3779631717916	0.0252808753046532
ATTACTCACAC	78.4778439861065	0.307857354059831
GATGAGTCAGA	78.5296955094847	1.19627931215991
ATGATTAGTCA	78.6153790869053	0.28790601846457
AATGAATCATA	78.6769927442051	0.491212763367896
GAGTGACTGAT	78.7534476738321	0.229716844087901
TTAGTCACACC	78.7916966175032	0.136945910392658

TTGATGACTCC	78.7978847314722	0.291115694832072
AAGAGTCAGAA	78.8372503562444	0.330631404175677
ATTTAGTCACA	78.8462120910305	0.186144840480836
ATGACTAAGTG	78.8741418881073	0.514272278836348
GATGAATCATA	78.8921452488175	0.404177676114373
GTAGAGTCACA	78.945234431299	0.319052806360428
TATGACACAAT	78.9458004567565	0.209807058412117
TCTGACTCAGC	79.0082097309797	0.20673225648258
TCTGAGTCAAT	79.038970071625	0.443501926518536
GACGAGTCATA	79.0509174180643	0.256939753333099
GTGTGACTCAA	79.0894113426171	1.42925313251139
CTCTGACTCAA	79.1538477007703	0.49943717965453
CATGAGTCACT	79.218773753486	1.1062357189396
CTGAGTCATTG	79.2866097834492	1.24333155855645
ATGACTAAGAC	79.3315511646562	0.0438154954744724
CTATGACTGAC	79.3390324904879	0.268222607509624
CTAGTGACTCA	79.3662774440718	0.0898103091950655
TAATAGTCATG	79.367591632537	0.315741916059352
AGGAGTCATCG	79.3938453463369	0.282725428032924
TATGTGTCACC	79.447805842471	0.454914060372046
ATGAGTAAACCG	79.4608392550825	0.177486231355464
TTATGTGTCAC	79.4752686236629	0.0976607638250122
TTAGTCATAGG	79.5293924105488	0.771655817047217
GTATGACGCAA	79.5611080092535	0.1672735224206
TAGAGTACCA	79.6355248768708	0.119272263541879
TATGACACACG	79.6893893796197	0.368265385541037
TTGAGTACCCC	79.7212391363534	1.15191343990578
ATGACGCATCA	79.8908879452978	0.455782031085889
CCTATGACTGA	79.9360788305184	0.443189266893674
GGTGACTAAAC	80.1013849749218	0.391281646714118
TAAGAGTCAGA	80.1192157057235	0.415012107785304
GTATGACGCAT	80.2271655368621	0.305959508490441
TCGAGTCATAC	80.2554191795892	1.03656307367089
TGGTGACTAAA	80.2612559260527	0.44606467674762
GTGACTGATAA	80.3932621767987	0.237726445235422
GAGTGAGTCAA	80.4477934482408	0.667709851332591
AAGACTCATAT	80.4970664456717	0.615802593439428
GCAAGAGTCAC	80.5874209495143	0.086497795465982
CTGATGACTAA	80.6147722537014	0.364551758124479
CTAGTGAGTCA	80.6153457991026	0.535336830209221
TGATGACTGAT	80.7452007314027	0.238599637207227
TCATGACTGAA	80.7929305196382	0.422393508566804
GAGTCATAAGG	80.8156080243174	0.835693362513744
AACAGTCATAG	80.8476633854548	0.12308529436744
AACGTGACTCA	80.9061183506307	1.46434448978041
CATAGAGTCAT	80.9151979935455	0.388940645920682
TATATGAGTCA	80.9256846092942	1.49861764569648
TTAAGACTCAT	80.9613830299338	0.414588371040702
TCATGACTAAT	80.9638116941434	1.43955252954232
TCTGACTAACA	81.1545434490644	0.472928127953823
CCAGTGACTCA	81.2232165308278	1.49453483036614
TATGACTGACT	81.2636997593469	0.47534609852617
CTCATGAGTCA	81.43128432479	0.44952919571451
GACTGAGTCAT	81.4425845686788	1.67181008953147

ATGACTCACGG	81.5720592397778	1.49188076889115
CTTCTGAGTCA	81.9651034822327	0.796747552647903
ACTGACTCACA	82.1421895602355	0.983611272353528
AAGAGTCAGAC	82.1448862362287	0.302782145211932
ATATTACTCAC	82.265185396689	0.360808016850673
TTTAGAGTCAC	82.3512320559011	0.262162729445763
ATGACTAACTA	82.3644646936676	0.178463301470417
TTGACTCAACG	82.3928752262845	0.266131853033847
GTGTGACTGAT	82.4203771967497	0.538347028769595
AGATTACTCAC	82.5774649711677	0.376578956836879
ATGAGTAAACAC	82.6861626076675	0.281810533534153
AAGACTCATCA	82.7394795279845	0.293640971950542
GTGACGCATAA	82.8440162648976	0.281069727761776
GTGACTCAGCT	82.9123425164375	0.533021867067977
GTCAGTCATCA	83.006296854532	0.344161835263589
ACTGACTCAAT	83.0704345655123	0.232843380551378
TTATGACTGAT	83.1012498706217	1.05757976559574
AACAGTCATAC	83.1541658019114	0.445274165294353
GAGTCATCGAA	83.2019240194255	0.359477161303258
CGTGACTGATT	83.2147929672369	0.60371645906819
CTATGACACAC	83.2175474924623	0.272458990201099
TAGTGACTCAA	83.2276313668047	0.533984739891195
CAGAGTCATAG	83.2601248816857	0.235309547338555
GTTAGTCACCG	83.2849634860138	0.287585807605056
TTAGAGTCACC	83.2897017949573	0.60970377334604
GATGACGCATC	83.3167759200642	0.561879419136201
AATGAGTCAAG	83.3355473220257	1.40186898148351
TTCGAGTCATC	83.3796236074796	0.247313443823377
GAAATAGTCAT	83.3926093347351	0.419444270629765
GTTCTGAGTCA	83.4242374638009	0.246974216135302
AGTATGACTGA	83.4708841318309	0.343320442928577
AGAGTCATCGC	83.5723154843608	0.183432805301902
TGTGACTGATA	83.603846654321	0.291587219609275
TGTGAGTCAAG	83.6061318303612	0.351758470165848
GGAGTCATACT	83.6955699427832	0.310424465797168
CTCTGAGTCAA	83.7301837490591	0.24698212435198
AAGTGAGTCAA	83.826958457919	0.279302508917735
TTATGACGCAT	83.8443541356384	0.334681533004785
GTATTACTCAT	83.8510113884586	0.762899931949397
GTGAGTCAGCT	83.9113116445785	0.355208091248778
TAGAGTCACCG	83.9341595513834	0.39138736686268
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CTATGACGCAC	84.0170026761926	0.376918560655026
GATGACTCGTA	84.0495767706316	0.47010719031294
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AGGATTAGTCA	84.1455563185867	0.756048915684967
ACCTGAGTCAT	84.198181105004	1.38571826678388
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CGTGACTCACA	84.2600934787807	1.39187275253084
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ATTACTCATAG	84.3630551746055	0.422156648487443
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ATGACTGAAAC	84.540729754854	0.33950258497852
GCAATTAGTCA	84.6095269572108	0.541839871674335
GTTAGTCACTG	84.7103748415951	0.217311207889723
GATGATTACC	84.7129039369533	0.467862601969599
TATTAGTCAAT	84.7255893287714	0.352414639522498
GGGAGTCATAC	84.7784055343409	0.285332095185523
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TACTGAGTCAT	84.8494053311356	0.769580073134886
GAGTTAGTCAC	84.9390628296502	0.457810808970009
AGATGTGTCAC	84.9398258830425	0.0733619377591092
ATGATTCACAC	85.0005481798647	0.317984736652196
ACACTGACTCA	85.0423081485942	0.449235705478381
GTTTCGAGTCAT	85.1190672636067	0.355589499793653
TAGATGACTCC	85.1500006797574	0.23605878444739
AATAGTCATCG	85.309167425937	0.899409698950214
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TGGGTGAGTCA	85.5052186748525	0.635430621928785
ATATGACTGAC	85.505874403693	0.439796226471126
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TGTCAGTCAATC	85.6868094071659	0.25944385247458
ATGACTCGTAA	85.7392752599933	0.364677759701057
ATAGTGAGTCA	85.8292994555159	1.12016453737352
GATGACTCGTC	85.8464781117232	0.346225266940733
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AGGCTGACTCA	85.9094568192348	0.305373685079846
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ACGAGTCATCG	86.0343025126179	0.378601738400858
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GTGACGCATAG	86.0677995249728	0.314551155694925
TGTCGAGTCAT	86.1083156260943	0.400778108664123
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GCGCTGAGTCA	86.2287362103076	0.587319975983953
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TATGAGTAACC	86.4097141058047	0.44237532471587
TGGGAGTCATA	86.5636668498226	0.279665577346846
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AGAGTCATACA	86.7344027030584	0.298055134832201
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GTATGATTCAC	86.8477171457349	0.255590811245552
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GTCAGTCATCC	88.1231572011066	0.263743070661343
AGATGACTGAT	88.2634446088285	0.451527193313343
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GAACAGTCATA	88.6493377023267	0.392853424367927
ATGTGTCACAT	88.6555561667463	1.00386771502215
CAGCTGACTCA	88.7416130734004	1.20641337573143
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TTAATAGTCAC	88.7869367247816	0.204435596395402
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GTATGACTGAA	89.0477427715396	0.57779332759085
GAGTGACTCAA	89.1665126266872	0.300239927881365
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AAACTGACTCA	89.5715521016045	0.493199733086261
AAGTCAGTCAT	89.6386587643269	0.140731968886367
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GGTGACTCAAG	89.8288939474268	0.734905073089112
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GAAGACTCATC	91.3230956827122	0.5566558369988
TGATGATTCAC	91.3999761249456	0.270503770641931
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GATGAGTCAAC	91.6873387181958	1.12029526341319
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GTGAGTCAAGT	92.2296037539334	0.411777411947299
CAGTGACTGAT	92.2454876234071	0.333477036417669
ATGTTAGTCAC	92.3135474701781	0.513562795218847
ATGACTCAAAA	92.322996794489	1.37845109150023
CAGTGAGTCAG	92.3714727129411	1.3594522200261
GGAGTCATCGA	92.3901819835313	0.328439557741131
ATTACTCATCT	92.434267919083	0.302289669420822
AGTGACGCATA	92.4350059509474	0.341060758321551

CTAAGACTCAT	92.5029793458818	0.262444615080397
TGATTACTCAT	92.5989936832568	1.33746626551278
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TATGACGCACG	92.6941114308707	0.363056563207749
AGTGACGCATC	92.7303215523658	0.55125998780394
TAATGACACAT	92.7684367006621	0.556998062921443
ACTGACTCAGC	92.7745592184166	0.592118494024001
GTATGAGTAAC	92.8368056498307	0.36644296697843
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CGGTGACTAAA	92.858542005245	0.458562146211077
GGTTAGTCACT	92.8871974700682	0.195124395771222
CTAAGAGTCAC	92.8964835663853	0.206197122950956
TCGAGTCATCG	92.9363074647179	0.273911205956483
CAGATGACTAA	93.0549580003603	0.201077175072596
TCTATGACTGA	93.0993267689609	0.237705978180287
TGGAGTCATAC	93.1123144735926	0.252828652211849
GGAGTCATAAA	93.1998082553297	0.384248220357791
CATGACTAACG	93.4538103268253	0.342743524994746
ATGATGACTAA	93.467777849583	0.195691054551664
AATGACTCGTA	93.492561924467	0.363049631166101
ACTATGACGCA	93.5033034015414	0.321737878803357
GCATGACTGAT	93.5261705603758	0.180853638426178
TAATAGTCACA	93.5469525440954	0.434976079351464
ATGAGTAACAG	93.5514731482731	0.321065506017525
TGGATGACTCC	93.5663145763373	0.407531193195977
GGTGACGCATA	93.6080694314628	0.311674569734083
TGATGACTCCC	93.6937749146828	0.41323003918699
TGTGACTCAAG	93.6964408843882	0.573311818586514
ATGATTCACCA	93.7622343205893	0.538979545592814
ACATGAGTCAA	93.7846030278007	1.34645563368946
GGATTACTCAT	93.8207621759032	0.733415271835269
GTTAGAGTCAT	93.9019026282505	0.262271444649688
CAATTAGTCAA	94.1302509028945	0.575111975070011
CTTAGAGTCAT	94.157519389534	0.391096053842732
GTTAGTCACCC	94.1961158875658	0.117478214650289
GAATAGTCACC	94.2318407138361	0.199243332676062
TGACTCAATTT	94.249941488499	0.550003663858073
CGTCGAGTCAT	94.2826521128513	0.491916792947162
AATGACGCATT	94.336009786921	0.222500231720157
TTATGACTGAA	94.3761726025688	0.128172030483471
GGTTAGTCACG	94.3793447154056	0.405461851697538
TAAGACTCATC	94.3799700067405	0.37401006701825
CACGAGTCATA	94.4631347242625	0.204445544305752
AAAGACTCATA	94.6250220062231	0.433748408125499
AAGACTCATAG	94.7792728605439	0.609151267672346
GTGTGTGTCAT	94.8842070265352	0.413115861329069
CGATGATTCAC	94.9273814088262	0.181899300164231
GCTGACTCAAT	94.9878244283477	0.353447440605098
GAAGTACTCA	95.0230973004664	0.107691466813253
GTATGACGCAC	95.0632813483323	0.470380428846661
AAGAGTCAGCG	95.2782066533079	0.320723545062153
ATATTAGTCAA	95.3969073420362	0.168668674717577
GAGTCATCGAT	95.4977089570257	1.44555806909129

TGTGTGTCATC	95.5612653724277	0.195158224261041
ACTATGACTGA	95.6174188354351	0.388899954245508
GAATGACTAAA	95.654330441573	0.53805451554811
TTTAGAGTCAT	95.9258969486249	0.212737857153069
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TAGATGACTAA	96.0266805613717	0.222671984843609
GGTGACTGATA	96.0545533717396	0.273014354831534
CGATGTGCAC	96.0662830269676	0.491567230704334
GATGAGTAAAC	96.1538959663545	0.344881581864929
AAGAGTCAGCA	96.2321949747795	0.125987683377694
GATGAGTAACC	96.3206103874403	0.45358008694986
ATATGAGTAAC	96.4028161047546	0.13667819067025
AGGAGTCATAG	96.4077590483155	0.23808223600646
ATAAGAGTCAG	96.4093535259742	0.317448857465373
GATAAGAGTCA	96.4277993313384	0.290695679230927
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GTGACTCACGC	96.6681805558223	1.40322319106222
TAATTAGTCAG	96.6951423223948	0.56293964489085
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TGCTGAGTCAA	96.7397094133484	0.311362630875902
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GTGACTGATAT	97.088408452652	0.206705897693967
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GATGACTCCCA	97.5307230050447	0.424219360301205
CAATTACTCAC	97.5396537448525	0.306902897866271
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TAAGAGTCAAC	97.9079316984191	0.413480983327623
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GTGACTGATTG	98.2719238359282	0.106925579547407
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CAGAGTCATAA	98.4027531490974	0.316507832718245
GAATAGTCATT	98.4104513556444	0.244828591418829
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AATTACTCACC	98.9501610023054	0.22743326038058
GGTGACTAAAA	98.960128087571	0.285410316820971
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GTTGACTCAAT	99.1532105087687	0.259207860900462
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AAAAGACTCAT	99.5447484067973	0.298021313633775
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GATGAATCATC	101.597615293821	0.492604035770171
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CATGACGCATA	104.035228181259	0.409737549868221
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TATTAGTCAAA	114.541122372356	0.493471733354197
GAGAGTCATAA	114.625241379239	0.286019743506784
TCTGAGTCAAC	114.666936195622	1.2688865476605
AATAGTCATAT	114.927369799836	0.480130810982941
CAATGACTGAT	114.94767111193	0.862162781583567
TCAAGAGTCAT	114.983979428878	1.24870148233567
AGGCTGAGTCA	114.991114720182	0.381997944084724
GCTGAGTCAAA	115.120891291272	0.377263006291576
GTCTGACTAAC	115.284868275694	0.466456040662483
CTTAGTCACAA	115.358571424615	0.144327119343061
TAGAGTCACGA	115.427082459792	0.355361879534385
GTTAGTCACGT	115.55539496834	0.674130923140233
AAATAGTCACA	115.569127320188	0.479122020831164
AGTGACTAAAA	115.617254977632	0.430484034180402
CCGTGACTGAT	115.621122024551	0.924221183834941
TCATGACACAT	115.648589615299	0.594824174526306
TAGAGTCACAA	115.761810510778	0.275914424064674
TATATGACTGA	115.961592660548	0.246817175138314
GAAGAGTCAGC	115.982080941399	0.288202380124415
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CTGTTAGTCAC	116.079025776145	1.22970949380215
GAAACAGTCAT	116.121142456434	0.238154858032573
AGAGTCATAAA	116.142667217996	0.277020167989215
CAGTCAGTCAT	116.424475280711	0.245830100405234
AGAGTCATAAC	116.429953668567	0.433617920252187
CGTATGACGCA	116.467810623938	0.61664226425833
CACTGACTCAA	116.48679921173	0.272493898109976
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ACCGAGTCATA	116.596844726786	0.167747443481929
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GAGTCATCGGA	116.665785371867	0.236694287305157
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GAGAGTCATAG	116.696955604481	0.33969374152526
TGTGACGCATC	116.87169316239	0.354332477740036

TATGACACAGA	116.901544958344	0.392784781330067
TAGTGACTCAG	116.946476690414	0.819740498826266
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GAGTCAGTCAT	117.096091901565	0.229719832460962
AGACTGACTCA	117.121073589274	0.548008299379646
ATATGATTCAC	117.312622107442	0.332367755765692
CAACTGAGTCA	117.527801639966	0.124660172410897
AATGACTCGTC	117.535232265243	0.320353334931412
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AATGACTGAAC	117.623367172486	0.52246397613952
TTGACTCAATC	117.650492424148	0.325690817707829
TGGTGACTGAT	117.732899537209	1.27461710074747
CGCTGAGTCAA	117.745272090547	0.546439212154782
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AAGAGTCAGTC	117.773486547843	0.258599097316616
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CCTGACTCAAC	117.880884965548	0.2994141349794
AGTTAGTACC	117.92541048563	0.705049060607968
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CATTACTCATC	118.035639716003	0.461087935405579
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AAGAGTCAGCT	118.094250041879	0.22552791578889
AAGAGTCACCC	118.146411564418	1.27680865114319
GATGATTACA	118.284923112054	0.60535201773923
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CAGAGTCATCG	118.37295487012	0.199263408925644
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AGGGTGACTAA	118.515175619947	0.268841128638951
AGATTAGTCAA	118.576135092099	0.372494424225125
ATAATTAGTCA	118.646299036201	1.06197216468536
TAGAGTCACAG	118.775842844961	0.654113490435037
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AATTACTCATT	119.968416212961	1.21560638068642
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GAACTGAGTCA	120.106517812362	0.0637942729638994
GAGTCATACCG	120.122360313183	1.03158209665688
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CGCGTACTAA	120.701172542926	0.0462152043653911
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GGTGACTCAGC	120.940252359125	1.61906949087145
GGTCGAGTCAT	120.968301631107	0.512237262784886
TAAGACTCATG	120.988299566867	0.715315623017057
GATGACTAAAA	120.995558535016	1.21914257027186
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ACTGAGTCAAC	121.299953454666	0.320027724894535
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CACTGAGTCAA	121.407405604604	0.165649897963395
GGTGACTAAGC	121.485638060373	0.434855626738082
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TAAGACTCATA	121.727998722719	0.805024069666739
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AATAAGAGTCA	122.541088857949	0.453904765681072
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TATGAATCATG	123.685610024158	0.235900315363045
ATGACGCATCC	123.913950715803	0.928509248329501
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TGACTCAACAC	124.321727600509	0.301371816472021
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TAGAGTCACGG	126.611117453818	0.430524872196216
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TAATGACGCAT	126.845050842356	0.606412267169385
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GACTGACTCAG	127.086750551883	1.23350644646268
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GCTGAGTCAGG	138.698596216498	0.359464124666594
AAATAGTCACG	138.7948253927	0.457198308182903
TAAGAGTCAGG	138.967425295121	0.443508909552141
AAGAGTCAGGA	139.00884375032	0.337394766953092
AGGATGACTAA	139.092656551423	0.322551630262315
AAATGAGTAAC	139.148700897143	0.369193630274857
ATTACTCACAT	139.166481196789	0.299415799234862
TAGAGTCACGC	139.175090546527	0.724383471201272
GCCGTGACTCA	139.26891861576	0.632955826030067
TAAGAGTCAGT	139.402116355337	0.667172858004813
TCGAGTCATGG	139.5266810782	0.444485245931228
GGAGTGACTCA	139.580252811672	0.617074356591179
TGACTCAACCC	139.586833807656	0.369765509990607
TAAATAGTCAT	139.756348343581	0.620895709426459
CATGACTAACT	139.933983752293	0.973125686349978
GTAGAGTCACG	140.038508518006	0.431953555925119
AACAGTCATCG	140.055744263197	0.851400359999999
TGAGTCATCGG	140.118899796503	1.9358400800407
AGAACAGTCAT	140.173677376149	0.390848668249523
AGAGTCATATC	140.486868208398	0.626005919357231
GTGAGTCAGGC	140.586844039845	1.60482060814201
TCTGACTAAAC	140.613837235687	0.384754811322833
TAGTGTGTCAT	140.948707976958	0.780679366727291
AATGACTAAAC	140.976963473709	1.11637030942712
CAATGACGCAT	141.44161853348	0.451247561374857
GATGATTCACG	141.60236635954	0.381063443153015
GAGTGACTAAA	141.857966684869	0.289129709500576
TGATGAGTAAC	141.966638196588	0.322030062814656
CCCGTGACTAA	142.272201690406	0.410163166615278

ATGACTGATTA	142.35216538816	1.18841178724008
GTCATTAGTCA	142.362531836041	0.54262758727377
TTGTGTGCAT	142.373517689622	0.380706819718178
TGAATAGTCAC	142.542530218489	0.233338064702849
TCTGACTCAGG	142.579914561536	1.23219146310352
ATGGTGAGTCA	142.709368748022	1.46978345215065
TAAGAGTCAAA	142.824825273302	0.339991285862704
AAGACTCATGT	142.836188676654	0.225869963702851
TGACTCAATGC	142.851100143619	0.219762824338944
GGATGTGCAC	142.932944355344	0.456511987335383
CGTGACGCATC	143.097578955655	0.212757359350861
TATTAGTCAAC	143.101329447592	1.14970172999395
TAATGACTCAA	143.176172504919	0.657901429383354
AATAGTCACAA	143.375839261071	0.414709209426051
AAGCTGAGTCA	143.421094311376	0.508011278257654
TTGACTCAATG	143.512095785783	0.438481061336855
GAGAGTCATCG	143.674971694333	0.663014558363216
AGAATAGTCAT	143.686224787092	0.427378867298894
ACTTTGACTCA	143.820112500713	0.466475419599953
TGATTAGTCAG	143.917592268388	0.387723269822593
AGAATGACTAA	144.173641038813	0.37560446095004
CGACTGAGTCA	144.288016080837	0.889232803454074
AAGATGACTCC	144.414276934332	0.197339009121944
AAATGACTAAG	144.465038725125	0.161088719605522
TGGTGTGCAT	144.473526902912	0.0753165111366249
ATGAATCATTC	144.535371752873	0.370128896149877
AGATGACGCAT	144.640153603202	0.937669661761968
GTTAGTCACTC	144.673162966928	0.920336295908178
CATGACTGAAC	144.81766878181	0.613752991332429
ATGTGTCACTC	144.827132050392	0.0834981335974971
CGTGACTAAAA	144.987437344131	0.5932296308672
TCTATTAGTCA	144.998379765743	0.463267705055136
GTGACTCAGTA	145.315549670605	0.833740630596541
ATGACGCATGT	145.328812920627	0.6912006860066
TTAGTCACAAT	145.341416528531	0.295712398643587
TATGAGTCAAG	145.754567795798	1.16290256890751
TGAGTCAATAA	145.845761535047	0.60562495729591
ATCGTGACTCA	145.846696383929	1.39055185729781
TTTATGACGCA	145.961986786134	0.407313433738614
GATGACTCCCC	146.013855456235	0.201218236363912
TCTGACTCAGT	146.045726360872	0.723788670003742
CATATGACTGA	146.25093240796	0.66096086953551
GTGACTCAGGA	146.257534704993	0.908686704863799
CATCTGACTAA	146.308779166018	0.252280297595987
GATGTGTCACG	146.428421001132	0.217502643794366
GGACTGAGTCA	146.629041702293	0.369442394085427
TAACAGTCATA	146.677567139124	0.498220165023358
TGACTCAACGA	146.693254064413	0.780938534585252
GTGACTGATGT	146.715205929746	0.403377328953998
ACGTGACTAAG	146.871431215923	0.331956669429935
CAACAGTCATA	147.018293520644	0.333662205989649
GGAGTCATATA	147.024290247592	0.243563005898377
TGACTCAACCA	147.037698236544	0.402276312811569
CATGACTAAGA	147.104741684052	0.376144529017782

GGATGAGTAAC	147.134504630206	0.282678206138462
AACGTGACTAA	147.159223212338	0.349380316843247
GATGACTAAGC	147.542889755443	1.12610419389733
TTAAGAGTCAA	147.62548053679	0.473854591372713
GAATGACTGAA	147.690818092704	0.448852767236579
TCCGAGTCATA	147.850995899024	0.663455529833373
TCATGACTCCT	148.092519845619	0.250087329352022
GATGACTGAAG	148.126236481618	0.477923731247921
CGCATTAGTCA	148.348393025765	0.47635281707557
GAATGATTAC	148.716839155083	0.322439061413042
ATCTGACTAAC	148.805712275789	0.39166058738141
AATTACTCATG	148.900572727207	0.431090914592046
CCGTGACGCAT	148.987589860869	0.224456153050108
TGATGAATCAT	149.086405534202	0.888370736035859
AACATTAGTCA	149.13521545005	0.421817343232696
ATGACTGATGA	149.44027251863	1.09901542491763
CCTAGAGTCAT	149.78636942599	0.208963478722577
AAGTGTGTCAT	149.855617484885	0.19796445940348
GGGCTGAGTCA	149.919351646926	0.583944498092149
ACATGACGCAT	150.047699198758	0.23970007751331
CCTTAGTCACA	150.258570779971	0.446549598184142
CATGAGTCAAA	150.44681690471	1.21236543664241
TCATGACGCAT	150.746377091396	0.820087299785518
TAGTGACTAAA	150.929283433241	0.0679343039818832
CGTGAGTCAAG	151.052768765924	0.631194935797734
AGTGACTCAAC	151.19954268595	1.43057112788898
AGATGACTAAC	151.428462313384	1.26549156019296
TAATGACTCGT	151.444100200235	0.253596168549037
GCGTGAGTCAA	151.454374446113	0.783071891824784
GGGATGACTCC	151.50763949988	0.744690204978267
ATTACTCACCT	151.603392242472	0.282739366897358
CAATGATTAC	151.691287332796	0.193243137552957
GCATGACTCCT	151.803587406452	0.274467804967786
CAGTGTGTCAT	151.80510528493	0.297302458631584
TATGATTACG	151.968569155973	0.332272507271162
TATTACTCATG	152.119563410577	0.651149572217532
ACGTGTGTCAT	152.145676446268	0.335779579002162
TTTCGAGTCAT	152.229327984933	0.625548221193979
CCATGACTGAA	152.264423869479	0.336733162111605
TAGAGTCATGC	152.291115890194	0.478446237902039
AGTCTGACTAA	152.468465008502	0.55896498597492
TATGACACAGT	152.477245073694	0.363497161830078
GATTAGTCAAC	152.965623914425	0.517199014043797
ATATGACACAA	153.003044029998	0.487358136208855
TATATGACACA	153.199674630783	0.383028474898831
TGTATGACGCA	153.215772941668	0.994828051879218
ACTCGAGTCAT	153.269608975561	0.583774298917995
ATTACTCACTA	153.314893407056	0.413170781513175
AAATGACTGAA	153.340120698715	0.587315341761952
CGGCTGAGTCA	153.347139056815	0.687353446191845
GACTGACTCAA	153.435216805418	0.296590975124769
AGTTTGACTCA	153.447581697885	0.175788476981549
AATAGTCATCT	153.474750984753	0.62624248593538
ATCGTGAGTCA	153.647335723121	1.05375597534552

AAGAGTCAGGG	153.833075266987	0.302088082987046
AAGTGACTGAT	153.838425748502	0.537207063462917
GGAACAGTCAT	153.839861408145	0.282662662294643
GGAGTGAGTCA	153.94723508236	0.906138378802019
AATGACTAACC	154.0265359242	0.760807985481665
TGTCAGTCATG	154.047571128142	0.741635168155944
AATCTGAGTCA	154.159660888742	0.519178373217024
AGAGTCATAAC	154.522433266307	0.643509140101548
GAGTCATACGT	154.612765093997	1.09301896845118
AAGTGACTAAA	154.765323977591	0.2529004703771
CTCATTAGTCA	155.033200468604	0.161791623146886
AGTGACTCAGA	155.141249432014	1.76237886793255
ATTACTCACTG	155.625469524094	0.207407343669386
ATTACTCATT	155.879936057712	0.49782825525235
GAATGAATCAT	155.907540959233	0.409940864672563
CATTACTCATA	155.910626699963	0.602512665085947
GGGTGACTAAA	156.067618278821	0.569676895800062
ATGACACATCC	156.152369108284	1.07262144028019
TTGTGACTCAA	156.262997362635	1.15583273841027
GATCTGAGTCA	156.280775050023	0.681921029695024
TTGGTGACTAA	156.44097647886	1.52062576120025
ATATTGACTCA	156.488284148986	0.356555040337081
TAATGAGTAAC	156.493619254966	0.304145368972692
CAATTAICTCAT	156.53997498748	1.69815960186708
GTAAGAGTCAA	156.690409904104	0.350801347084268
AGGTGACGCAT	156.970567508172	0.459952607439716
CTCTGAGTCAG	157.065332962235	1.11301121163055
CTTTTGACTCA	157.204876478383	0.191790420544608
CGAGTCATATA	157.312456931024	0.471740674023837
GTTAGTCACGC	157.632450319476	0.746294695244892
TGACTCAACAG	157.647304474423	0.435238318245335
GGGTGACTAAG	157.730027252208	0.263479916123575
AAGAGTCAGGC	157.853870052588	0.353953028890853
CAGTGACTAAA	158.321666354938	0.614042272652057
GACTGAGTCAG	158.395152189269	1.05389284340143
ACATGACTCCT	158.566148530341	0.4058684963489
ACATGACTAAC	158.724710742646	1.08146779667428
GAGTCATAGTT	158.78551148478	1.14897411122515
CTAGAGTCACC	159.091092447563	0.345976637558095
TGATGACTCCA	159.156521078972	0.109211830269025
GTAACAGTCAT	159.19416675927	0.491159658626993
CGAAGAGTCAG	159.376481952297	0.322908470528454
AATGACTCCTG	159.518183038449	0.205930527401926
GCTGACTCAAG	159.816137908245	0.976609424476378
GACTGAGTCAA	159.952899328497	0.127854347496083
GGAGTCATATT	160.077670014444	0.218178854470923
ATCATTAGTCA	160.221636940751	0.518071547911454
CAATAGTCACC	160.27019201209	0.327911955972539
GACATGAGTCA	160.796693838007	1.19442656044765
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TACGTGAGTCA	161.007568195429	0.871480008302094
GAAGAGTCAGG	161.302282877929	0.255681694917527
GAGTCATCGTT	161.372193313415	0.493444782233296
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CAATGACTCGT	161.425642066023	0.456315478821023
TATGACACAAC	161.482372670015	1.06505118276689
AGAAGAGTCAG	161.681378403543	0.270493490590223
GTAATTAGTCA	161.985502645777	1.09060886213844
TGGTCAGTCAT	162.061672364949	0.736899152937771
AACTGACTCAG	162.159115078873	0.284332227754531
CTTATGACGCA	162.597636428435	0.182758531897988
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GATGACTCGTG	162.983772313641	0.59472704846247
AGCGTGACTAA	163.097747812192	0.410079444585538
GAATAGTCACG	163.308227634005	0.643115461846897
CAGGAGTCATA	163.567262992721	0.317453125850678
GAAAGAGTCAG	163.568692405623	0.284272536620338
AGCATGACTCA	163.659603983286	1.67253321133859
GTGACGCATTA	163.659939955603	0.256390175654496
CGAATAGTCAC	163.931914955681	0.376873291979806
ATGAGTAAAAG	164.30147262283	0.277640604116896
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ACGGTGAGTCA	164.724823135678	1.79002490765287
ATTAGTCAGGG	164.895305547598	0.315506987104488
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ATAAGAGTCAA	164.947568978374	0.314963543858245
TGACTCAACCG	165.076428586631	0.379513503339418
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CGAAGACTCAT	165.365541671701	0.386508871132083
AAATGACACAT	165.392293429998	0.834995829266404
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ATTACTCATGA	165.550619047258	0.445570704626992
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CGTAGAGTCAC	165.906958389906	0.696448965390915
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GCGTTAGTCAC	166.71969157689	0.677522198698337
CAATGAGTAAC	166.780106461278	0.434829526664808
GATGACTCCCG	167.347269016071	0.205254092183276
AATTAGTCAAAA	167.371709911598	1.03944822141133
CATGACTGAAA	167.599713173467	0.407914775985247
GGATGACTCCG	167.601548561978	0.511484650378831
GGTGACTCAGA	167.725945947819	1.30654073924959
TAAATAGTCAC	168.086352898722	0.828304888664445
CACTGAGTCAG	168.113477476315	0.834446684639082
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CATGACGCATG	168.489048802351	0.287625905042635
AGGTCAGTCAT	168.600334960544	0.236042184624507
GACGTGACTAA	168.661647842602	0.550963275434577
TGTGACTAATG	168.90937528992	1.41439581335155
CTAGAGTCACA	168.986959456504	0.368288408407801
CTCTGACTAAA	169.240917373897	0.427163794011705

AGGATGACTCC	169.380881835727	0.654744056697342
GCACTGAGTCA	169.467941054137	0.603052729299714
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ACATGACTCGT	169.897164188004	0.522577077647056
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GAGTCATACGG	170.335612210859	0.195946276808333
ATGACTCAAGA	170.433950051823	1.08641101126948
GAGTCATCGAC	170.658333051928	1.13007986668837
AGATGAGTAAC	170.795293064332	0.242319296452907
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CATTACTACT	171.413415112747	0.0729227231073838
TCCGTGACTCA	171.442263888233	1.66494869845812
TCTATGACACA	171.516167941693	0.0461504940714032
TCTCGAGTCAT	171.53395702526	0.630311603196244
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GAATGAGTAAC	172.062488425117	0.536320954116494
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CATGAGTAACA	172.362912279753	0.281537485583258
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CAAGACTCATA	174.120196571459	0.47662274193341
CGTGTGTCATC	174.169626398384	0.402234102536555
AATAGTCATGT	174.223375978194	0.547543636626
CATGACACATA	174.408762520611	1.14740602641807
ATGAAGAGTCA	174.551450951174	0.232392383068006
AAATGACGCAT	174.599017521843	0.64238575200183
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AGAAGACTCAT	174.997961474864	0.310013186437462
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ATGTGTGTCAT	176.231211948601	0.755420692344173
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CACATTAGTCA	176.449904663826	0.250415454995874
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GAGTGTGTCAT	177.303026329632	0.35914438917585
TTAATGACTAA	177.452580103919	1.07706086643845
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ACTGACTCAAG	179.590044421418	0.362375604119633
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TCGTGACGCAT	181.02444101137	0.557225107778657
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ATGTGTCCACGC	181.433124757301	0.644743814501273
ACCATTAGTCA	181.840566246103	0.172524336149114
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TCAATTAGTCA	182.110796736753	0.928440075629499
ACGTTAGTCAC	182.287116494368	0.93298232679267
GGTGACTAAG	182.356697852327	0.388696499206204
CGAGTCATATT	183.094389946267	0.2528684183098
CAACAGTCATC	183.400864563405	0.352494559322588
AGCGTGAGTCA	183.656856506833	1.17232683495083
TTTAGTCACAG	183.748429521308	1.11912802010186
CATGAGTCAAG	184.020224251151	1.03141323921549
CTGTCAGTCAT	184.154566156112	0.963326699223922
CGGATGACTCC	184.255863674616	0.404518621667278
GGAAGAGTCAG	184.487931690026	0.334555606266778
AAAGAGTCAGG	184.882422184816	0.412988195961203
ATTATGACGCA	185.097870650141	0.503462978238775
TGAATAGTCAT	185.557031400027	1.15614870897042
TGTATGACTGA	185.631180182667	0.682218137278243
ATGAGTAAACG	185.729403818468	0.29260434546422
ACAAGACTCAT	185.759886713614	0.160215277473803
TATGACACAGC	186.084612664668	0.731676707231641
ATGACTAAAGG	186.101367560777	1.14238705579102
AGAACACGTCA	186.138825246924	0.434573825587108
ATGAATCATGG	186.206143068866	1.00878113187538
GGAAGACTCAT	186.29428058305	0.185386148226525
GGTATGACACA	186.365914300905	0.422883051526461
CGGTGTGTCAT	186.607823369234	0.185130713462298
ATGATTCACGG	186.754818562244	0.316749915282915
GTAATGACTAA	187.177528168008	0.682492817885983
CCATGACTAAG	187.385849359033	0.120708179396104
ATGAGTAAACC	187.633833515059	0.389452931113368
CTATGACACAG	187.799334306687	0.480791303592284
GCTGACTCACA	187.999903383086	1.08998810450154
GATTACTCATA	188.288916471964	0.740268187787918
TCGTGACTAAA	188.337043710108	1.06829822321238
ACATTAGTCAG	188.823971499952	0.606541486067357

GGTGAGTCAAG	188.930232810293	0.99236724931555
ATGAGTAACGA	188.939263854856	0.559950084361519
GTATGACACAA	189.247011703754	0.951556839916851
ATGAGTAACGG	189.547095171343	0.389580502379699
CAGTGACGCAT	189.664043778537	0.821192810280511
ATGAGTAAAC	189.796538263572	0.135845485723598
TTAGTCACATT	189.906172979912	0.67280652131966
GCTGAGTCAAG	189.951649505018	0.373770309741445
CGGAGTCATAC	189.983090356192	0.836721668052168
ATTATGACTGA	190.079591950996	0.43831879314898
ATGACACATGT	190.121904828788	1.03606727259121
ACCGTGACTAA	190.570877027853	0.980440932617604
CTTATGACTGA	190.604509368403	0.871044937878806
AGGTGACTCAG	190.970453594291	1.35546727241706
GTATGCGTCAA	190.972012151159	0.350450254141361
GTCCGAGTCAC	191.391421092343	0.48924340862108
GCGTGAGTCAG	191.55597119383	0.622623371535937
CATGACACATC	191.713258455311	0.967036782316686
CAATGACTAAG	192.016369134532	0.979007276013074
TCGTGACTAAG	192.15059382087	0.345406985471247
GCATGACTCGT	192.261172798152	0.680600841244602
TATGACTAAGC	192.368353918087	0.954174826456375
GGTTTGACTCA	192.517594019696	0.589915040767068
GAGCTGACTCA	192.61236780913	0.883391174694523
AATCTGACTAA	192.798252969536	0.246414670999549
TGACTCTTCAA	194.611112375826	0.42653225708751
AATGACTCGTG	194.664710723043	0.375650404916559
ATCGAGTCATG	194.700161335303	0.648572173616494
AGACTGAGTCA	194.826954557225	0.249536717398575
TGACTCACATC	194.926740433667	1.43514725869281
ACTGACTCAGG	195.180628134677	0.341855753550638
ATGAATCATGC	195.38900533915	0.965750195686314
CCTAGAGTCAC	195.793007689232	0.437611944965538
CTAATGACTAA	195.91538496993	0.340964291928226
GAGTCATAGAA	196.360509995573	0.0920350952956895
TGAACAGTCAT	196.45372002165	0.744539891755125
CGGAGTCATAT	196.469098443728	0.236916905389549
CGAGTCATATC	196.776365757933	0.396366107073438
CCATGACACAT	196.816510035939	0.330180922256903
TCTAGAGTCAC	197.188838013101	0.264682936882103
CAAAGAGTCAG	197.538599164139	0.298967556117168
AAACAGTCATG	197.595538970628	0.142970963837887
CATATGACGCA	197.660745180817	0.923747265532172
GCGTGTGCAT	197.750524665263	0.370049057991271
TTCTGACTAAG	197.968392297692	0.412511051141952
GGCGTGACTAA	198.030592755881	0.333991186801466
AGCATTAGTCA	198.194356481304	0.741941497449009
CGGTGACTCAC	198.227916930673	1.74045564351301
GGGTGACTCAG	198.426589079875	0.863027918663049
TAGAGTCATGG	198.583662697625	0.532275702269093
GAATGACTAAC	198.636429120797	1.14301067152217
TATGTGTCACT	198.725704900618	0.663939169027753
GCGTGACTAAA	198.730372058097	0.724853337526065
GCGTGACTAAG	198.803799882076	0.611348043747817

TCGAAGAGTCA	199.004516826575	0.331629226785865
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CAAGACTCATG	200.243123681914	0.258947232567043
TGTGTGTCATG	200.316127032956	0.237381285742584
ATGTGTCACTT	200.645182303194	0.297791537707497
TCCTTGAGTCA	200.689271789536	0.356076942410646
AAGACTCATGG	200.895127797476	0.537352183563629
GGGCTGACTCA	201.027763674202	0.68885313053999
CTATTGACTCA	201.028988151822	0.396087645185451
GAGTCATACCC	201.205585832963	0.91778127851331
CATGATTACC	201.480737695729	0.310083100173234
TTAGAGTCATG	201.502970790255	1.00424020790283
CTAACAGTCAT	201.724664775708	0.332527173258055
CTCTGACTAAG	201.811383062899	0.39745194292266
TACATTAGTCA	201.896247206105	0.257607886976843
TTTAGTCACAC	201.977760391127	1.08401218569478
GCATGACGCAT	202.023358194441	0.924530145345211
GATGACTCCAG	202.066895408699	0.265765147456095
CTGAAGAGTCA	202.230521592481	0.627751720689857
GCATTACTCAC	202.308554884521	0.429160126911531
CAAGACTCATC	202.421205264758	0.294951905231763
GCTAGAGTCAT	202.42209873228	0.228735601038934
TGAACACGTC	202.744177717268	0.585963048389872
CCATGAATCAT	203.192831291171	0.924582464435104
CAAATAGTCAC	203.246962095984	0.167716353686717
CAGAAGAGTCA	203.272754353413	0.446684556281687
TCATGACTAAC	203.907198670696	1.0024975886412
GTGAGTCAACC	204.191127776059	0.868315589782093
ACATTGACTCA	204.585562311343	1.07953682886249
ATTACTCACGA	204.636040043944	0.776120623933937
GCATGACTAAA	205.067856793934	0.974433898006601
TTAGTCACAGA	205.531851734422	1.00007902628684
AGAGTCATACT	205.671782143466	0.966180721200692
ATTAGTCAGGT	205.688226946468	0.552099049906159
AATTAGTCAAT	205.792801409989	1.45311906086673
GGGTGACGCAT	205.806828258963	0.686594500366545
ATTGTGACTCA	205.97841178311	1.4840072521009
CTTGACTCAAC	206.060300053543	0.198673673922529
TAAAGACTCAT	206.384809085845	0.692372853554447
ACTAGAGTCAC	206.621897537429	0.455337398095047
GTGATTAGTCA	207.327959529796	1.01200190807387
ATCTGACTCAA	207.391723321786	1.02250801514782
CATTACTCACA	207.694543999509	0.732753337252676
TCATGAGTAAC	208.268701357195	0.428184487966708
CGTCTGAGTCA	208.749930347414	1.28233928020673
GACCGAGTCAC	208.913893706653	0.417679241780613
CGAGTCATCGT	209.086006553136	1.1341323844091
TAGAGTCATTG	209.275960107251	0.330626410491688
TCGTGTGTCAT	209.797407730637	0.238242118088478
ATGTGTCACTA	210.084708051578	0.963444033122205
GGTGACTAAGG	210.483410767176	0.412122200391861
ATTACTCATGT	210.50561583619	0.926073373778176
CACTTGAGTCA	211.3563113157	0.34444987831258
CAAGAGTCAGC	211.383327710414	0.427699090386924

TATATGACGCA	211.732200989726	0.419649989521967
CATGATTCACA	212.076671050711	0.57332779575637
CGTTTGACTCA	212.178154715869	0.779706860712989
GTGTGTCATGC	212.179096166683	0.403703748117862
GGCATGACTCA	212.198311172248	1.06451919335326
TTAGTCACATC	212.223716017618	0.476147841214167
TCTGACTAACG	212.306300195317	0.955441196402781
GCTGACTCAGT	212.520058782132	0.904482264802913
CGAACACGTC	212.525748392317	0.279358820121759
CAATAGTCATC	212.562288874317	0.783045698063419
CAAACAGTCAT	212.683056279898	0.467615348337942
CTTGACTCAAT	213.255709896559	0.727524625088005
TATGACGCATG	213.991972458969	0.896424304871079
GTGACTCATT	214.085823356807	1.2578178413698
GATGCGTCAAC	214.694661577292	0.469557550623043
GATGAGTAAACG	215.025995906057	0.520928266511942
CTATGACTGAG	215.139367009629	1.02047732793894
TATGACGCAGC	215.223341457575	0.703863597456861
TCTTTGACTCA	215.61817476951	0.525124383220386
GCATGATTCAC	216.058855413433	0.125383140279234
CTAAGAGTCAA	216.17432924937	0.305604652712723
ATGAGTAAACA	216.44280373068	0.441370842976864
ACATGACTGAA	216.893813631596	0.372276975671321
GAACAGTCATG	217.522798622974	0.379736656167306
AGTGACTAAAG	218.266597589266	0.26385679233474
AAAACACGTC	218.588680814731	0.384186388261708
CCATTACTCAT	218.609991985245	0.900818053555438
CCATGACTGAT	218.687377238645	1.05434140821524
TGACTAAGTCA	219.18275399607	0.650946518169108
AAGACTCATGC	219.23381699719	0.297120221351806
GAAGACTCATG	219.525871764128	0.632726227841768
TAAGAGTCAAG	219.608650578126	0.198883164941041
GTCATAATGAC	219.676717447673	0.311318664817613
TATGACGCAAG	219.790992807495	0.520928033358009
ACAACAGTCAT	220.308439796074	0.450707761681811
AACTTGAGTCA	220.567908134602	0.405953418987692
CCATGAGTCAA	221.023411688582	0.626589700999458
ACTCTTAGTCA	221.160996403843	0.568374501629395
TCTGACTAAAA	221.190742069354	0.704591238374724
TAATGAATCAT	222.244479466033	1.15397737939445
CGTGACTAAGG	222.47770724023	0.569903690883682
CCGAAGAGTCA	223.124145022457	0.404155546906751
GCATTGACTCA	223.696794017665	0.898111990265963
TGACGTGTAA	223.948928529424	0.255991152229343
TGACTCAACGC	224.672217663227	0.436916773535702
CTGTGACTAAT	224.993935861299	1.58872198945154
CGCTGACTCAG	225.277407506225	0.90225245068578
GATATGACGCA	226.111068995687	0.933998094512381
GTTAGTCACTT	226.285858091169	0.927316705074407
AATGACTAATG	226.487842512093	0.908231979786477
CAATAGTCACA	226.504397825277	0.346705597335523
AATAGTCATTT	226.723634216523	1.18576975716934
CATGACTAAGG	226.826646736863	0.283011488027968
ATATGACTAAG	227.04342551754	1.15856509325523

CTGATTAGTCA	227.053077752395	0.877452959667518
CATGAGTAACC	228.138611244607	0.679662264363926
GCTAGAGTCAC	228.241645052405	0.42701038707676
GCGTGACGCAT	228.78236710136	0.933661525401125
ATGAATCATGA	228.810940824517	0.726751673044406
ATTACTCAATG	229.104615994504	0.383454790276262
CCGAGTCATAA	229.24822219711	0.535559273169996
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ATGAGTAAAAT	230.447425013153	0.378126432549832
ATCTGACTAAG	230.562950258429	0.410773835089524
CGTTAGTCACT	230.683125838499	0.536269677414409
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GTCTGACTAAA	231.821297435632	0.537853074492033
TAATGACTGAT	231.822293905206	1.10009321176258
TTAGTCATATT	231.974243233396	0.902267036432765
ACATGATTCAC	232.11325565419	0.328514340635105
GTGACTGATGC	232.120994435177	0.921623734085125
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ATGTGTCAACG	235.045515272905	0.243338843385643
AAGAAGAGTCA	235.293475996509	0.296441961704563
ACGCTGACTCA	235.816741870763	0.88972927615935
ATGTGTCAACA	236.012701364632	0.264750391935427
TAATGCGTCAA	236.64667817888	0.637836104213461
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ACTAGAGTCAT	237.657224703846	0.609677023012534
GCCATTAGTCA	237.708464656052	0.371508789111125
ATCCGAGTCAC	238.780630392312	0.145849560280908
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TATTAGTCAAG	238.850483774049	0.365335308538096
GCGAAGAGTCA	239.362264125054	0.350174531223039
CCTCGAGTCAT	239.718989237912	0.332895274797863
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CTGATACGTCA	240.387747704695	0.408704683499065
ATGACACATGC	241.020356158066	1.11526570448672
GTGAGTCAAGG	241.151397787543	0.640820317844387
GACTTGACTCA	241.334631754567	0.593681556675582
ACTGAGTCAAG	241.54381604618	0.674643274990443
ATGAGTCGGAC	241.612336107059	0.273603174121371
CTAGAGTCATG	241.741701642145	0.37554778399955
AATGACTAAGC	242.022359972739	1.28615603054308
ATGTGTCACGA	242.084219307313	0.870637856643964
GTGACTCGGAA	242.435770540113	0.368035788216976
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ATTACTCACGT	243.224310842239	0.807794833995528
TTTAGTCATAC	243.519788046511	1.34060216769607
GCATTACTCAT	243.892946752054	0.905549770684767
TAGAGTCATGA	243.94141491299	0.903752910469483

TGACTAATGCA	244.582258199337	0.394388970656995
CCAATGACTCA	244.719108039155	0.845597203876438
GTGAAGAGTCA	244.939375567333	0.312482398183088
GCAACAGTCAT	245.017439143252	0.176453102858095
AGTCCACGTC	245.089430214776	0.522380480970454
GAGTCATACAA	245.155382300867	1.19032106353715
CGTTAGTCACC	245.187960287254	1.21941996664379
GGTATGACTGA	245.27867576149	0.348043191552177
GTCATACGTC	245.374586987215	0.550717100656999
GGTCTGACTAA	245.560306237051	0.224013022789548
ATGCGTCAACC	245.618780424646	0.493206310675107
ATTAGTCAGTA	245.861421585773	0.313814538114297
CATGACTCCTG	246.292466959829	0.394791174263181
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TACTTGAGTCA	247.528066689494	0.274237010792785
CAATGACACAT	248.634972758428	0.948499634596794
GAGAAGAGTCA	249.200545768094	0.325996373577403
TCGAGTCATGC	249.303161689421	0.301844085291308
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TCTCCGAGTCA	250.079048686145	0.35334925410868
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GTCCTGAGTCA	250.739789853147	0.481991178300303
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AGCTTGAGTCA	251.48102695245	0.624889391509069
TGACTCTTCCA	251.494960826686	0.274277819559047
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GATATGACACA	251.581831353407	0.388824432572772
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GGGTGTGTCAT	252.384278680591	0.243392791816132
TAAACACGTCA	252.507931710355	0.382185794501114
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AATGCGTCAAC	252.735810647623	0.395042029468142
CGTGACTCAGT	252.965947086345	0.894835963878115
GCAATAGTCAC	253.010206278774	0.431363628127677
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AGGAAGAGTCA	255.443877168895	0.240170868834007
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AATGACTGAAG	255.853939927769	0.776987400966573
ATGCGAGTCAC	256.111652009189	0.408913371257478
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ATGTGTCAATC	256.151405078188	0.283913411307091
TAGAAGAGTCA	256.200682621469	0.374304116450368
TAGAGTCATTA	256.336696396453	0.514968299775848
CGTGTGTCATG	256.394568066643	0.245480283896187
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TTTATGACTGA	258.348469748272	1.25318562961393
GCTCGAGTCAT	259.372327160528	0.774503308800607
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GACAAGTCATA	260.889291779562	0.248304320119818
GCATTAGTCAG	261.022362782524	1.12940061041745
TGACGCAGTCA	261.031042559638	0.376783479806748
TGACTGTATCA	261.687868436796	0.455470403927701
TATGACGCAGT	261.854172178421	0.275421933335273
ACGAAGAGTCA	261.854874706495	0.46369215271146
AACAGTCATGA	262.00852719353	0.565138445879144
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CGTGACTAAGT	263.158447341251	0.368075960188801
AGTACACGTCA	263.502270886863	0.606632932119428
AACTGTGTCAC	263.880893877299	0.467317817895665
GTGACTCGGTA	263.979488159893	0.1505791761668
TGACACAGTCA	264.002147291528	0.228314096074478
CCACTGAGTCA	264.017089640294	0.48243363848715
CATGACTAAGC	264.480728271845	0.415152373981486
CATTACTCATT	264.797434611111	1.21435897871049
CATGACTCGTG	265.357873667601	0.481890303980718
GGCTTGACTCA	265.358530534574	0.701475338480997
GATTAGTCAAG	265.541821901432	1.07127503760267
TGAGTCAAGCA	265.665732540264	1.2948300098274
GGAGTCATAGC	265.757298333912	1.35919100481351
AACTTGACTCA	266.064247992677	0.95190608899454
GACTGTGTCAC	266.28254798573	0.256084582880736
AAAAGGTGACT	268.725657137155	0.401446797295705
ATTACTCAACA	268.89393763935	0.332403486571597
GTGACTCGCAC	269.515779709659	0.255111827132952
ATGACGATGAC	270.072128066399	0.413540844756076
CTCTGACGTCA	270.091305770623	0.380216644699067
TGAGTCATCCC	270.299732919902	1.7332955407526
CATGACACATG	271.215488854596	0.495474190132666
AGTTGAGTAAT	271.542257181615	0.219411315192896
TCATGATTCAC	272.247746957424	0.351402420616563
TAATAGTCACG	272.375180650725	1.08956003883997
GATGACTAAAG	272.582161493986	0.709580749336971
AATGAGTAAACG	272.675661005367	0.833692795548461
ATCTTGAGTCA	273.146063446231	0.493779624642439
TGACTGAGTAA	273.52185850414	0.2077597584493

TCATGTGCAC	273.693377288102	0.747002679297219
ATTACTCAATC	274.47001378495	0.293588120118877
GAATTGACTCA	276.102395653996	0.414884702796145
GTCATGACTAA	276.158027422634	0.533355730766564
GTTTTGACTCA	276.606971358444	1.07058592159196
AATCCACGTC	276.950369295875	0.354626671808219
ACATGAGTAAC	277.394938301104	0.362239091940612
ACAATAGTCAT	277.556896448807	0.824774292423911
ATGACTAAAGA	277.904353382508	0.893018723893662
GGAGTCATACG	278.346522871272	1.09608205026261
AGACTCAGTCA	278.347635353587	0.360556003582604
CCATTGACTCA	278.413829594825	1.05171545419255
GATCTGACTAA	278.451415601468	0.531564406267001
TGACTCAAGAA	278.57656480145	0.419356848061756
ATGACTGGGCC	278.736259934725	0.293663033256199
ATTACTCAATA	278.969771070865	0.454306412810092
GCATGAGTAAC	279.045783578574	0.373106565465918
CCCATTAGTCA	279.141577746143	0.551086509454155
AATAGTCATGA	279.141950717702	0.829536440215322
CATCTTAGTCA	279.192700044861	0.479290783614049
AATTGACACAT	279.411844138017	0.523907021855879
CATGACTGAAG	279.902292008912	0.307769697110051
CGACTCAGTCA	280.12243795558	0.253270724933879
GCGTGACTGAT	280.275161285105	1.14146373126165
CCAAGACTCAT	280.333620911473	0.425738501774532
TATCTTAGTCA	280.487770479581	0.455455268036944
GGGCGAGTCAC	280.609542075779	0.325790508667707
CGAACAGTCAT	280.887852451612	0.513413280265374
GATTTGACTCA	281.030635163727	0.278744416539447
CGGAAGAGTCA	281.150591389828	0.329152723583548
GAGCGAGTCAC	281.236918305014	0.206227331224261
GCAAGACTCAT	281.277690796127	0.103735797132585
GGAGTCATATG	281.38473413336	0.370383949089415
GGGAAGAGTCA	281.559090177398	0.301901625015236
TGACTCGGAAA	282.749243941659	0.504277950970979
GAGTCATACAT	283.538411308192	1.01091093722988
TTGACTCAATT	283.620949759329	0.557734866766472
GTCTGTGCAC	283.925389045248	0.424593464980578
TATACACGTCA	284.176944387295	0.424715293986629
ATGACTGGGTG	284.342984480303	0.327038532334293
ATGAGTCGGAA	284.762120346011	0.370820219448456
GCCGTGAGTCA	284.85098105227	1.02175012961906
CTTACACGTCA	284.936987595552	0.51263014521498
ATGACGCATGC	284.973239923989	0.877890707062682
AATCTTAGTCA	285.430962099182	0.505440615983989
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TTAGTCACATA	286.276398359099	0.818661608664528
GGAACACGTCA	287.412454081983	0.5213327149587
CATGACTAACC	287.592055169922	1.24744167984796
TGACGTGGACA	287.726046103989	0.321493324262557
AGTTGACACAT	288.515531289681	0.321666863372933
AATACACGTCA	288.611349329162	0.491178042497921
ATTACACGTCA	288.712388972818	0.373047098726561
ATGTGTCAAAG	288.759752879157	0.298692120625254

CAAATACGTC	288.850330115483	0.431998237287345
GTGACTCGGCA	288.931650024116	0.297521591345977
GACTTGAGTCA	288.999416737748	0.321903635660637
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CGGCTCAGTCA	289.239851029603	0.547180818582214
CGACTTAGTCA	289.679538789221	0.475111843522047
TGACTAAGACA	289.764790691866	0.43368490623947
AGGCGAGTCAC	289.840968077741	0.286952964115618
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GTA	290.63268278955	0.294471743153475
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ATGAGTCGGAG	291.19898580579	0.263594695328012
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TGATGCGTCAA	291.376768608633	0.397718715185107
GTCATACATGA	291.45124767282	0.330700985729453
AGTGACTGATG	291.928907922855	0.694453123050147
ACACTTAGTCA	292.356998207605	0.636914750150043
AGCTTGACTCA	292.575491795375	1.00361919193587
CTAGAGTCACG	292.949852079684	0.359734384474193
ATGACGTGACA	293.030738947611	0.356586485832924
ACATGAATCAT	293.499337751363	0.933087614387896
TGACTTACTCA	293.873044600374	0.413456731985216
TCACTTAGTCA	294.107366309044	0.537197030742717
TGACGTCAGAA	294.331093316143	0.47472551374681
GTCATCATGAC	295.241949228845	0.360946335164396
AATTGAGTAAT	295.459878776141	0.223679396986861
CGTCATATGAC	295.552382957928	0.290861470765102
GTGACTCGCTA	295.937465673823	0.233930076973068
CGGGAGTCATA	295.980113979062	0.913697416265231
GTCATACCTGA	297.488914295971	0.499017143920705
TATGCGTCAAA	297.554546413892	0.530634136554852
GGTACACGTCA	297.638085406577	0.49482181051106
ATGAGTCGGCA	298.15304051861	0.24650802641991
TCATTA	298.252165030366	0.784541882809656
ATGAGCAAATC	298.307625715049	0.480690479503836
GTTCTTAGTCA	298.534019252527	0.410590913918059
ACAAGTCATAC	298.577834114327	0.438905362807323
TCCTTGACTCA	298.633326466981	0.431842041664165
CAACAGTCATG	299.565751300466	0.508648431954131
CATGGTATGAC	299.696943050609	0.41704551311522
AGCTGTGTCAC	299.723351357713	0.240848575524405
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AAATAGTCATG	300.262735265882	0.669974574080801
ATAATGACTAA	300.558590809558	0.381128526461897
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CAAATAGTCAT	301.2797404239	0.600230821733184
TTAGTCACATG	301.593470148329	0.245820797708561
CGAGTCATCGG	301.602911397473	1.15834428397103
GCAAGAGTCAG	301.626682652308	0.312245109537341
GCACTTAGTCA	301.626717492918	0.56692517375652
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ACAAGTCATAG	302.072826158829	0.35360292478289
CGCTTGACTCA	302.074884960809	0.762992881923431
ATGACTGGGCA	302.187720526838	0.149384839004511

CGCTGTGCAC	302.245506314987	0.25374022551133
AGACTTAGTCA	302.315544729504	0.300253110084847
ATTAGTCAGTG	302.466711896642	0.738967044941805
GCCAAGTCATA	302.721005254614	0.361062200376246
TAAATTCGTC	303.776885276012	0.383488525917215
TACTTGACTCA	303.94564909926	0.415037999086143
CATATACGTCA	304.086750616996	0.431216542741262
ATCCGACTCAT	304.095037339327	0.333883049973511
GGCTTGAGTCA	304.270328319291	0.215484896927634
CAAATTCGTC	304.452629961597	0.432951549132278
ATGACGTGACC	304.525338586508	0.403395793792109
ACCTTGAGTCA	304.781868483094	0.619468898816905
AGCCGAGTCAC	304.923545393034	0.296425750170704
GATGACTCCGG	305.933926381444	0.192020579240837
GGATGACTAAG	306.50401826361	0.874604667550462
ATAATTCGTC	306.618113729301	0.424411704640298
GATGCGTCAAA	306.658632925412	0.288190319248471
ATCTTGACTCA	306.684902820961	0.236582263897156
ATTACTCACGG	307.069620565274	0.839853885260567
ATGACTAGCAT	307.718718288082	0.198885347679034
AGCCCAGTCAT	308.517721266988	0.294106162171401
TATGACTTGGA	308.742231718868	0.230727475082951
CAGCGAGTCAC	309.344154955071	0.369555370540118
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CGTCCACGTCA	310.418544430209	0.334881734603592
GTGACACAGCA	310.531752431647	0.368964359877051
GGCGTGACTCA	310.805389936849	1.42028746129778
ATTACTCATGC	310.841396726692	0.531891525096335
ATGACGACTCA	311.180172275229	0.362604422299238
GTCACAATGAC	311.529743668847	0.269814019608605
TGACTGAGCAA	311.595681955163	0.471602928864692
TCAATAGTCAC	312.167605127534	0.481313048685982
CTCTGTGCAC	312.500044133956	0.188655054839792
GTCATCTATGA	312.542978944699	0.413067173011993
TGACGTATACA	313.121849287171	0.142063587437976
ACTTGAGTCA	313.236943871528	0.353937298295899
CACATACGTCA	313.480542878835	1.18097325918554
GACATTAGTCA	313.674999806459	0.95354626422385
CTTCTTAGTCA	313.952588756682	0.564602572515702
GTCATAAGTCA	314.287410027897	0.309495737933081
ATGCGTCAACG	314.535995295169	0.932991623317481
CCACTTAGTCA	314.879311522321	0.49675146299327
GTCATCGATGA	314.948619297988	0.686251251579443
TGACTGTGACA	315.015867297563	0.372305452068894
CTAACACGTCA	315.078692123772	0.31074621341753
CCTCGGAGTCA	315.542410105343	0.420608009563615
TAAACAGTCATG	315.644527085701	0.47347573744007
ATGACTAAGGA	315.912665576902	1.00624803295086
ACTCATAGTCA	316.030054851042	0.261364215017751
GACAAGTCATC	317.013147827308	0.213299231672035
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CGCCGAGTCAC	317.251934829499	0.305783530661133
GTCACGATGAC	317.445196581448	0.543228344148887
ATCATCAGTCA	317.741689243076	0.381203619895477

TCACTGCGTCA	318.594464110086	0.264744357235986
TCTCTTAGTCA	319.344863232875	0.572009913516658
TGACGTGTA AAA	319.599917014015	0.384627117613943
CTATGCGTCAA	319.884752129776	0.44884685845653
CATGTGTCACC	320.772801637936	0.607099702405695
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CACTTGACTCA	321.235918732036	0.533144020376494
ATGACGTGACG	321.473734212839	0.318744007213393
ATGACAATGAC	321.558426321312	0.511395305406588
TGACGTGGAAA	322.210999376614	0.475199349640497
ATATGCGTCAA	322.308743577585	0.437170363023673
TATGACGCAGG	322.60683431049	0.880623349328628
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ATGACTGGGAC	324.067309090924	0.395267321516152
AACCGACTCAT	324.627982739146	0.28092587428783
GTCATGACCCA	325.060438460286	0.316684974147909
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ATACTCAGTCA	325.522984044087	0.272433415186614
ATGACTTGTCA	326.165520976123	0.281233621819944
GTCACTATGAC	326.168806524024	0.348664884012881
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CCAATAGTCAC	326.28782687413	0.297265125680379
CACTGTGTCAC	326.670370268438	0.314232892132565
CCAACAGTCAT	327.144602175541	0.435830782999795
ATTCTTAGTCA	327.188519013794	0.441197303988908
ATAACACGTCA	327.809018966502	0.428367796986049
GTAATTATGAC	328.643669875292	0.230892781961686
TGACTCTTGCA	328.794016212005	0.252794056761369
TGAGTCAAGAA	328.988729599754	0.217156285373766
AGTCACCTTAG	329.450748518136	0.30451219578508
AATGCGTCAAA	329.598294017817	0.2304877450771
CTGCTCAGTCA	330.063343556656	0.288236358727207
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CAACCGAGTCA	330.276422025376	0.473261118445143
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GAAACACGTCA	330.967567179628	0.726118992445101
CTGACTATGAC	330.990164960298	0.280823252120227
AACTTTGTCAT	331.1363296756	0.301786311795137
CAA ACTATGAC	331.433315990934	0.338532091452996
GGTGACTGATG	332.224684616699	1.19620967921667
AAATGCGTCAA	332.920149173888	0.244959029772905
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ATTATACGTCA	333.618127109488	0.215398913440136
TATGCGTCAAG	333.620868480959	0.21767365153313
TCATGACTAAG	333.939952022445	0.952089263248634
GTCATTTGTCA	334.1094052406	0.337521911182534
TCAAGAGTCAG	334.137511578341	0.26454345441012
ATGAGTCGGCC	334.248739593327	0.312760714864604
ATGAGTAAAGC	334.286959454968	0.219690356413218
AATTTGCTCAT	334.301945551762	0.237390028552653

TCATACAGTCA	334.377332059556	0.455958305740717
CCGGGTATGAC	334.412196634379	0.274445558882932
ATTACTCAACC	334.77589707831	0.248737553592635
ATACTGTCATA	335.21818953928	0.339557770869101
ATGTGTCAACC	335.91800690391	0.368867562127087
CAATGCGTCAA	336.811997069492	0.297565682690507
ACTACTAGTCA	337.365796499495	0.237017644733599
TATCCACGTCA	337.640767726647	0.221281859364441
AGCCGACTCAT	337.879911767909	0.425861864408339
ATTACTCACGC	339.915624275334	0.569287795528922
AACATCAGTCA	340.10083088332	0.236635868441549
AGTCACCCTGA	340.12876367172	0.209381739574428
TCATGAATCAT	340.501624493626	0.792754515583672
CATCCGATGAC	340.643587945505	0.345308219797822
CGTCACAGTCA	341.045917440198	0.277193938511831
GTGACGCATGT	341.514277985814	0.750543306542591
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GTA CT CAGTCA	341.875555543764	0.544717006144761
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GTCATCCGTCA	342.00053473357	0.0981634791644103
CCCTTGAGTCA	342.108084042262	0.549725534825698
ATGACTTGTAC	342.111649055622	0.111896376187767
AAAATTCGTCA	342.123291688837	0.519169224178833
CGTACACGTCA	342.160864987817	0.555841639674941
CAAGGTATGAC	343.837855496742	0.245233615226726
ATTTGACTCA	344.199369533699	0.398915637486626
ATTACTCAAAG	344.561366890545	0.154828997196135
GCGCTTAGTCA	344.619414703174	0.317417452417055
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CACCGAGTCAC	345.304496447444	0.273306131046814
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GTCATAGATGA	346.611631408764	0.351709991885744
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GCTTTGACTCA	348.011378352887	0.667178554795005
CCAATTCGTCA	348.288884736759	0.362899452048599
CATACGATGAC	348.863546215333	0.372405794277321
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GCAACACGTCA	349.707387566759	0.505009841484465
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CAAGTTATGAC	353.157512391136	0.273496212422393
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CATGATTCACG	354.578465975241	0.589614000346358
CCTTGATGTC	354.677172883084	0.132916396245186
CTCGGTATGAC	354.838544467001	0.315961006254092
CATCCGAGTCA	355.100776172078	0.398209162271004
GGTCCACGTC	355.302479112025	0.40726317996497
CGAACTATGAC	355.906324717598	0.644556510726381
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ACGCTTAGTCA	356.504015089414	0.454393328895419
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AGTCACCTTTG	357.059536091314	0.242754507633264
AAAACCTATGAC	357.136871822768	0.616215494691222
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ATGACTGGGTA	357.549503790147	0.22273613252595
ACTTTACTCAT	357.585739719569	0.289500928501629
ATATGTATGAC	357.599094105822	0.47348355712048
ATGACTAGCAC	357.800601513973	0.305787368693233
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TGACGTAGTCA	359.158834801972	0.364398802990514
AGAACTATGAC	359.204448501513	0.256092882329212
ATCCCAGTCAT	359.594052147064	0.390737699542763
GTTACACGTC	359.919654233687	0.464161907637977
TGAGTCAAACA	360.18920615632	1.33820339809799
GTCATACCTAA	360.309021609109	0.227856202907897
ACTTAGACTCA	360.610199070032	0.29660609261443
ATGCGTCAAAA	361.451953471785	0.346883405577983
ATGTGTCACGG	361.491829285845	1.01959565575181
AATTTGACTCA	361.540962514121	0.940746425466453
TGACGAATTAA	361.585319395711	0.413009075001763
TAACTTAGTCA	361.626358768903	0.302368815613159
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ACAATTATGAC	362.606943724622	0.338324092342637
GATTCGATGAC	362.768912201714	1.26590320123622
CTGCTTAGTCA	363.103578495873	0.570473485986658
AAGCTGTCATA	363.818891665488	0.228249771879935
TACAAGTCATA	364.032269514126	0.43485089574133
ATGTGTCAAAA	364.211059129153	0.282833548191052
AATAGTCATTA	364.394015872682	1.06423208622269
TGACTGGTAAA	364.475981607227	0.304780293568151
ACGCTGACACA	364.822732662818	0.303213462012085
TCATAGACTCA	364.993597815634	0.382858221394967
TGACGTATTAA	365.14356983238	0.209047128435666
AAACTCAGTCA	365.77379158204	0.478838738062414
GAACCTACTCA	366.119450462264	0.190712138186542
TAACTCAGTCA	366.282413536017	0.347740397395684

AATCACAGTCA	366.346381903651	0.254385455246154
ATGAGTCGGTA	366.717563127917	0.283731346136746
TTTAGTCACAA	366.898299492437	0.990046694456678
GTCACACGTC	367.376396683806	0.479065212777854
ACACTCAGTCA	367.428067602342	0.238930191541853
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GTATGACACAG	368.080598786989	0.671184685446338
TCATCGACTCA	368.215347148347	0.236000324784004
ATCTTTGTCAT	368.432110824001	0.3097369455706
CCTCCGAGTCA	368.487186638561	0.313050378526585
GTCATAGTTCA	368.885593795726	0.143048564575044
TCAACAGTCAT	369.205651060842	0.569442492131361
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TGACGTATAAA	369.336528514914	0.316130501453862
CTTCCGAGTCA	369.670936952932	0.293216428656553
ATGACAAAGAC	369.673414682127	0.216919110039232
ATGACTTGTC	369.676268377779	0.176396925089539
TCAATTCGTC	369.948367940252	0.383671405980492
CGAATACGTC	370.367164026188	0.402385838267635
ATGACTTGTT	370.592130670815	0.26452996438853
TGTATGACACA	371.27980833642	0.611984056794329
ATGAGTCGGCG	371.334953060749	0.295375224876335
TGACTCGGCAA	371.488175320418	0.529378185620968
AGTCACCTTTA	371.761987595703	0.328873074792634
ATTCCACGTC	371.799110108402	0.266479686523777
ATGAGTAAAGG	371.941385307744	0.275156908556445
ATGACTGGGCG	371.969193858544	0.355416325497578
ACGGCGTCATA	372.139707259172	0.310980045372567
TAAACCAGTCA	372.13970782666	0.173697873050603
GCACTTACTCA	372.241657658164	0.402591126279235
TCACTCAGTCA	372.37194436064	0.315425376779349
AAGCTAGTCAT	372.851053161564	0.302847644905712
CGAATTCGTC	372.912960909146	0.623051722683603
CAATGTATGAC	372.965765659874	0.476323900684454
GTCACCAGTCA	373.02645525127	0.280474778485518
ATGAGCAAATG	373.187644741039	0.241104951142894
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GTCTGACGTC	373.280100213358	0.345858541719221
ACAAGTCATCG	373.407216839673	0.291535204013488
AGTCACCCTTG	373.515940208435	0.233626362937368
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ACGCGAGTCAC	373.786682318269	0.411300090548068
GTCATACCTTA	374.147541772561	0.266014567094111
AGTCACCCTTA	374.164323500759	0.227570104390607
CAAAAGATGAC	374.681445148866	0.149118145089585
CTGCCGATGAC	374.877972235906	0.471957235284086
GTA CTGT CATA	374.918369835071	0.287264557594536
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GTCAGAATGAC	376.18129289474	0.453366291821843
GAGTCAATGAC	376.342395005138	0.280585982381756
GTCATAACTGA	376.382360730617	0.478826561849265

GTCATACATCA	376.435637813757	0.234891123954008
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GCAATAGTCAT	377.239325322513	0.961235367579721
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AATAGTCAACG	379.050059593431	0.324129658680268
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GTCATACATAA	379.650743765497	0.392350416175841
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ATTACTCAAAT	380.021640706738	0.15824066600252
CTTATACGTC	380.954818298763	0.406210898738891
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TGAGTCGATAA	381.349107831854	0.336915355870671
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CACAAGAGTCA	382.292571887689	0.41046736543
TATCCGAGTCA	382.661741096126	0.296384703972431
GTCATCAGTCA	382.745577418499	0.640573786285462
ATCATTATGAC	382.848479704993	0.270584466133862
TCGCTCAGTCA	383.002132649082	0.260187894694479
ATGTGTCAAAT	383.085133201864	0.276342882416375
ATGCGTCAAAC	383.481768149452	0.197429427128935
CGTCCGAGTCA	383.489251385097	0.711311268892581
CCAAGTCATAG	383.510230427889	0.323736745650012
GTCATCGTATA	383.658622703508	0.238565703991979
GTCATCCATGA	383.932060390213	0.571791829322116
GTCATACGTAA	384.023798219148	0.403440067594714
CCTTTTACTCA	384.356124616869	0.294306925110408
GAGTCATCGGG	384.550561509788	0.190870426712613
GTGACTCGCGA	384.990841206995	0.126269958431181
TCTTTTACTCA	385.645609525483	0.401968017689209
GTAGGTATGAC	385.868717027207	0.217232780087505
AAAACCAGTCA	386.091046670938	0.274705944174277
GTCATAATTCA	386.240530873853	0.516171000942743
TATGACAGTCA	386.436625542491	0.207542599787329
CCACTCAGTCA	386.635249860298	0.329959604796611
ATGACTTGGCC	386.746640559456	0.33019362032162
CACATCAGTCA	386.77288598136	0.440411320419571
ATTACGATGAC	386.988592195161	0.548109020611098
AGTACTATGAC	387.108413421662	0.148456409022864
GAGTCATAGAT	387.668880871246	0.293086839934473
CTGTTTCGTC	387.818607276723	1.28600055127713
ACAATACGTC	388.311464124663	0.291371664699956
CCAAGTCATAC	388.522695622573	0.211976219809821
CAACTTAGTCA	388.741646630873	0.255879523422906

TGACTGATGCA	389.141919330402	0.343677188872918
GAGTCATCGTG	389.195603787853	0.254537289882482
CTCTTGAGTCA	389.2894778784	0.459817746348788
CGCTGACGTC	389.407484504129	0.456894605411776
AGTCACCTTAT	390.131727932429	0.315042952583384
ATGACAAAGTC	390.499475403143	0.38213429461848
ATTATTTGTCA	390.831968468051	0.457872913456321
GTCATAGTCAA	391.183689960174	0.324649389556949
TGAGTCGTC	391.381734528087	0.410869867305697
CATGAGTAAACG	391.413655752283	0.512923464086369
GTCATACCGAA	391.429448247369	0.253551777129502
ACACTTACTCA	391.815497648177	0.249772514617396
ATTACTCAAAC	391.892955241413	0.29535596644457
ATATGACACAG	391.940280930211	0.827414726150558
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TAACTAGTCA	393.814270488685	0.221526824266152
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CTGTAGACTCA	393.906900718029	0.616665532190095
ATGAGTGAGTC	393.920032934696	0.276505635964297
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TATTTGACTCA	393.992498764752	0.677515185329513
TCTAGTAGTCA	394.021155824594	0.302573727070663
TGACGCACGAA	394.061112742026	0.281242155689087
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TAACTTACTCA	394.179167476331	0.245845697646718
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AACGTTAGTCA	394.767265776322	0.302747675388695
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ATTGCGTAATC	395.097568357277	0.30983759274231
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ATGACTAGCCG	395.243910799459	0.629476981057698
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GAATCAGTCA	396.992829874076	0.675158507278437
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TCTCTGTGTCA	404.490784526391	0.398085426681311
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CACGTGCGTCA	405.761416975485	0.226753514482483
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GTCATATGTCA	407.178587585932	0.440220688644884
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GGCAAGAGTCA	407.564069553447	0.107304183348209
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AGAGGGTGACT	408.006061696715	0.247954584184701
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ATGACAGAGTC	409.344846309212	0.419014729121485
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ATGACGTTATA	411.312667360602	0.32965917714035
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GTCATACACGA	412.107072474087	0.356390194644696
TAGCACAGTCA	412.125357617747	0.547133337032371
GAAATTCGTCA	412.129041791391	0.323148444871932
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ACTCCGAGTCA	423.878238490967	0.327174797029096
ATACTTAGTCA	423.905955641886	0.516827271399037

AGACTTACTCA	424.003969356234	0.326803061171723
ACTCTGTGTC	424.139993417437	0.29586811509412
ACACGTATGAC	424.307258429107	0.257090466854078
GGCTGTGTCAC	424.328666047729	0.429875244084523
AGTCACCTTGA	424.464902217281	0.246083259582655
ACGCTCAGTCA	424.743551333011	0.192440554253967
TAGTTTACTCA	425.025175604337	0.302822753751993
AGTCACCCTAG	425.14164530722	0.323326813496499
GACGTTAGTCA	425.142790812195	0.344842559617123
TCACCGAGTCA	425.367833127607	0.276934400513971
CAAAGGATGAC	425.59544789528	0.250234361765696
ACATCGACTCA	425.749352121226	0.404972603434464
CTCATCAGTCA	426.03715006592	0.392769224946988
ATGACAAAGAG	426.321621772635	0.297605755584833
AACCGTGTGTC	426.385661935552	0.268018503897955
AGGCTAGTCAT	426.4376169475	0.207262140176428
AACCGTATGAC	426.510859628528	0.233681949123272
TACGTGCGTCA	426.562827860741	0.396105906454056
GAACCTAGTCA	426.781374316609	0.167954114885672
GTTCTGTGTC	427.091696719976	0.656452686596854
AAGATTATGAC	427.142357354456	0.27259039559394
TGACTGATGAA	427.414888267855	0.378967748821563
TGACGTAAGAA	427.468280869814	0.271621395458383
ATTATGATGAC	427.532630481754	0.313682169710428
TGAGCAATAAA	427.914589697513	0.173768683431601
ATGACTTGAC	427.928523413896	0.402840831584965
ACCGTTAGTCA	428.08228257777	0.513808050557587
ATCTGACGTC	428.211155185	0.243835613859656
CACTTACGTC	428.766295267879	0.291651500893233
CCGATGATGAC	428.845541181372	0.42926082575742
ATGCACAGTCA	428.894838967029	0.537695209470711
ATGACGTGATA	428.985193083682	0.245944541148331
GTTATGACGCA	429.151486209908	0.820955813149866
TGACTGAGCCA	429.277006729897	0.471431319511035
CAACGTATGAC	429.352285849825	0.337518592216256
GTCATCCGCGA	429.562248997459	0.457017152359029
AGCATCAGTCA	430.009625503859	0.51867012727713
TAATCGACTCA	430.053729401724	0.51945968058734
TAACTGCGTCA	430.066035691431	0.392323950933967
AGTCACCCTAA	430.20633392138	0.290378386514298
TCAGTCAGGCA	430.210387412144	0.454163971069017
ATGTGTCAAAC	430.281915982654	0.218824557827144
GCTCCGAGTCA	430.468529865924	0.41014844751702
ATGACTGGGAG	430.604576166669	0.25639408396343
ATAACTATGAC	430.74658409058	0.404886191241789
TGAATTCGTC	430.842828584228	0.385636697372321
CTTATTGCTCA	430.90376315832	0.331328490833269
TACTCGAGTCA	431.134264345602	0.358062919947916
TATATTGCTCA	431.344292418844	0.296031296513595
ATGACTAGCAA	432.186854509291	0.254541875070729
ACAACTATGAC	432.214437007356	0.346364266695687
CTACTTAGTCA	432.260157499944	0.340074148665817
AAGGGTATGAC	432.337907498728	0.217551712000877
GTCATAGTCGA	432.386932697125	0.46159806440104

TGACTCGGACA	432.444943444711	0.345840357887875
AGTAATATGAC	432.611620075185	0.240898010135906
GTCATTAATAA	432.699118333198	0.455901506928123
CATTGACTCA	432.893563413472	0.325297968349953
AACAGTGTGAC	433.099272305505	1.33980778003065
GTCATCGGACA	433.120993782637	0.472649627900057
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AGTCACCTTGG	433.427972729485	0.29694088214912
TCCAAGAGTCA	433.574361383542	0.615598617155897
ACGCTTACTCA	433.620901832514	0.238902710857219
CTTGGTATGAC	433.856574513174	0.353147717064825
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CGTATTGCTCA	434.004166888154	0.676617867430242
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TATGAGTCTCA	434.461366965684	0.431980306196088
GTCATTGGTCA	434.521723054683	0.34667805656781
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GGCAGTGTGAC	435.175516573313	1.32716420394986
GTCATCGTTCA	435.24647496884	0.293325384575447
TGACGTGTGCA	435.385194657099	0.449230573089193
ATGACTAGCAG	435.487939187817	0.215955741606157
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ACCGTGCCTCA	436.139245815032	0.31182060519487
TGACTGTGTAA	436.180620600626	0.182635409422424
CGATCGATGAC	436.496473274742	0.43496121380393
ATGAGACTCAT	436.572267620833	0.423984834806222
GACTGTATGAC	436.640369536374	0.550083052915678
CCGATTATGAC	436.999727130144	0.449076369082202
GTCACGAGTCA	437.009349473796	0.168415344123153
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GTCATGCATGA	437.35322263541	0.441240810003679
TCGACGACTCA	437.573640600736	0.454660686465452
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AAACTTACTCA	437.883796312201	0.384984384836125
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GTAGTTATGAC	438.301439608753	0.367673019688533
CTGACGACTCA	438.535282271293	0.232433363581791
ACCTGTGTCAC	438.553381183225	0.238309623525446
TCTGACTCTCA	438.61518475541	0.249656202897981
CCTTGGAGTCA	438.765081474196	0.355361272479
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CTACTCAGTCA	439.128634323743	0.248455098580546
AGTCACCTCTC	439.204626577901	0.250046060712365
TGAGTCTAAAA	439.523110195692	0.296162725941074
GACACTATGAC	439.650839919325	0.199407196659133
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ATTCTGTGTC	439.68248199601	0.422889467791995
GCGCTTACTCA	439.748210906324	0.456100507111361

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ACTGTGAATCA	440.273552156045	0.273090776732145
GTCATCGGCAA	440.406047428304	0.348646816485327
CTGATTGGTCA	440.431067046066	0.534903825548316
CTTTTGCCTCA	440.775546814336	0.392648745348215
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GATCTTAGTCA	441.246329058636	0.358861879360972
CGCAAGAGTCA	441.523745764249	0.29849955445032
ACTATTATGAC	441.562281507561	0.409049530263351
AGATGTATGAC	441.577957897852	0.0760107194894397
GTCATCGGTCA	441.64126068653	0.434922320310994
TCAATCTGTCA	441.729749779489	0.267464417691199
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AACTTGACTAA	441.873688707476	0.297209804558707
ATACTGTCATC	441.929016495228	0.159429624502712
GAAACTATGAC	441.935306866401	0.422583418373511
ACTTGGAGTCA	442.033175485114	0.480056005358147
CATATTTGTCA	442.096324375757	0.102664902516481
ATCTTACGTCA	442.169812145213	0.370212969852716
GAATTTATGAC	442.204846298121	0.543981764376174
GTCATACCGCA	442.280774647334	0.333707927484603
TGAGTAAAACA	442.469280115027	0.217053644780816
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CATGCGTCAAG	442.519303937942	0.762718706201533
ATGACTAGCCA	442.544105224339	0.32880455248993
CCAATTATGAC	442.826741504994	0.2572322140024
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GAAGCTATGAC	443.836476454565	0.399648603017993
GTCATCGGTGA	443.901721935334	0.216492669767651
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TCTTCGACTCA	444.069052418229	0.358269343352311
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CACAGAATGAC	444.796615375705	0.490618412255772
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AGTCAACCCTGG	445.382695984073	0.285505714122648
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GTCATATTTCA	445.420056312902	0.207387059129905
ATGACAAAGCG	445.580445092324	0.266944353345027
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GTCATCTTATA	446.48041091588	0.193585547942902
TGAGTGAATCA	446.518394598337	0.388873975140175
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GTCCTGACTGA	447.191622551078	0.303730545645963
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ATGATCTGTCA	447.636311251835	0.325274058100167
AAAATGATGAC	447.827980891248	0.340613076920045
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GTCATCGGAGA	448.007651550241	0.42064259406107
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GTCAGTATGCA	448.177853794648	0.255440164836089
GAAGGTATGAC	448.216029430717	0.31661299243284
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TCGCTTAGTCA	448.405742419936	0.201949002825971
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ATGACTTGCCA	448.604490254074	0.306296710182666
CATAAGATGAC	448.615288420981	0.22998932692435
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ATGACTAGCTA	448.647088883375	0.531491861373729
GTCATATATGA	448.712136902453	0.651622973289079
GTCATCGCTGA	448.846671850389	0.565430113305729
GTCATACCGGA	448.944211890267	0.456945393157529
ACCGGTATGAC	448.949678239133	0.216563225729177
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AGTCACCTTAC	450.759575934394	0.199075049836002
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AAATCGACTCA	452.170621205353	0.399846068513548
ATCCAAGTCAT	452.258633757855	0.246358867651449
ATGCGTCAAGG	452.261595328382	0.2590712824608
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ATGAGTCCCAC	452.459606510998	0.256933204446945
CGACCTAGTCA	452.471835017324	0.470421375065585
AATACGATGAC	452.570108257232	0.37259811199224
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ACTCTGAATCA	453.384213866115	0.433496093906403
AAAACGATGAC	453.397782457225	0.341516081901121
AGTCACCCTCA	453.594072149903	0.352500456626614
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AGTCACCTCGA	453.814707162305	0.261341931218278
CAGATTATGAC	453.898708140684	0.49152148854512
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AGTCTACGTC	454.086986945207	0.244812834618708
ACCCTGACTGA	454.117038181553	0.230531343624877
TGACGGATTAA	454.129689201108	0.49215637910086
GTAATTCGTCA	454.21873614187	0.434745305341036
GTCATTGCTCA	454.242491187527	0.489687877099209
TCAATAGTCAT	454.597870882467	0.847403461471893
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GAGGCGTCATA	454.741459434928	0.264581226256468
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CACGTCACTCA	455.839704031447	0.424926456757804
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ATCACGATGAC	463.24361733514	0.513596456964318
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GTCATAAGTGA	463.748962480307	0.380263535030904
CTTCTGATTCA	463.820354976365	0.265347158976926
ATATCGACTCA	463.915266426565	0.401905738054667
CAATTGATGAC	464.023068475287	0.43832004130472
TGAGTAAACCA	464.20483336393	0.566486359663898
ATCCGTGTCAT	464.260880612362	0.205086534950053
ATACGGATGAC	464.316442932145	0.401226233015622
GTCATATATCA	464.346406168074	0.435700412021042
GAAATCCGTC	464.69935168224	0.211425023506753
ACGATTTGTCA	464.731019342314	0.350922245686325
TGACGCGTAAA	464.753891857528	0.259999351632214
AGCTGTATGAC	464.865719547251	0.419650147176985
TCGATTTGTCA	464.880799509862	0.466185867290587
GTCATACAATA	464.969811046242	0.322658592147651
TATATACGTC	465.01179782424	0.382457398284519
TCGATACGTC	465.205350898655	0.206083456806009
ACTTGACACAT	465.215422090934	0.313036133980095
AAGGCGTCATC	465.269751701829	0.236254591535456
GGATCGATGAC	465.474578718191	0.275010110916646
CTTATTATGAC	465.493047483405	0.306642412867969
CACGATATGAC	465.719899065453	0.44156207111661
CCTTCGACTCA	465.744089900845	0.328576581202449
AGAATACGTC	465.824121570603	0.330732779052808
GTCATCGCTAA	465.863690824486	0.252462423585542
ACATGACTGAT	466.163525175254	0.967142832298092
CGTGCTATGAC	466.267880867541	0.607659650377914
CATGCTATGAC	466.309588452239	0.556845661906266
GTCAAGTCATA	466.530248357463	0.308351793146152
GAAACCAGTCA	466.561132025903	0.38388331473416
GATGATGTAAC	466.700220475547	0.205859790669904
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ATGAGTACCAT	466.860210653075	0.395617408764899
CAGAGGATGAC	466.923446865107	0.401054094529287
CGTTAGACTCA	466.971695424492	0.583666591821146
CTAATATGTCA	467.335831208857	0.264865729218011
CGCATACGTC	467.34181799884	0.641487189051841
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TCTGACTAAGG	467.790066371597	0.367231896862853
GTCATAGCACA	467.845364337251	0.383472836559339
ATGACGTTGTC	467.883782477707	0.339758878577585
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CCTACTAGTCA	468.296673910724	0.337842669291793
GATTTGCTCAC	468.374061018083	0.244080383688726
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GTCATACGTTA	468.577656849978	0.499222464780666
ACAATTGCTCA	468.828911565737	0.463645073424164
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TCATCCAGTCA	469.051874593915	0.28756521056629
GTCATAATCAC	469.130216057973	0.390227886960097
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AGTACCAGTCA	469.476208216178	0.265458515665447
GAACCTATGAC	469.512625054769	0.429583694371252
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TCGATTGCTCA	470.363528995424	0.207233105474674
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GTCATACGCAA	471.161177487581	0.229706090061464
ATGACTAGCTC	471.245529317767	0.464774983926843
TAATTTGCTCA	471.297921077661	0.385441545782798
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CAATCTAGTCA	472.230769649223	0.387501751611666
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CACTCGAGTCA	472.331914767424	0.459172395650471
CAACACAGTCA	472.75168924405	0.50450536165482
ATGACATGACA	472.766578930026	0.193419901281023
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GAGCTGTCATA	472.940547006261	0.318177521600136
ATAATGTCATA	472.975663822749	0.231173812214157
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ACTCCAGTCA	473.335024508657	0.325797939772688
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TGACGTATCAA	473.479484625966	0.530972081297477
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GCAACCAGTCA	473.913095381693	0.250748051028431
TCTGTGAATCA	473.927412125693	0.488327721519515
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TCGCTGACTCA	474.230386468507	0.840901789364488
ACTTCGATGAC	474.242601451706	0.258166745827033
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ATCAACGTCAT	474.345389327265	0.208235584436841
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ATTAAGTCAGC	474.444207512722	1.38699862524705

ATGACGAACTA	474.525314446055	0.246957467401616
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ACTACTATGAC	475.54882289931	0.38865333104035
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ACCGTGATTCA	476.081750669223	0.40855649297445
CACGTCACTAA	476.207823955246	0.296482165396463
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GTCATCGTTAA	476.520280337493	0.447826168594595
GTCATATATTA	476.544046997494	0.241832567438926
CTTATTTGTCA	476.705259481703	0.342969377252424
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GTCATAGATAA	476.988338246902	0.387366604055408
CTGGTAGTCAC	477.10450737369	0.295962195281588
AAGATACGTCA	477.112216241729	0.40259136378582
AGTCACCCCTA	477.196504101672	0.305695568590664
TCTTAGACTCA	477.343560590945	0.314797977172103
CAGAAGATGAC	477.63252612721	0.314494015646886
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GTCATTAGTAA	479.342401346641	0.404195058363535
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ACAGTTATGAC	479.72586267154	0.347010122631976
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GATAGGATGAC	479.985129836692	0.246929598942121
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CAAATATGTC	482.344969624951	0.542863905841083
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GTCATAACCTA	497.55433028223	0.286037306344216
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CGGATCCGTCA	498.014176035551	0.360313112606179
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AGTTACATCAT	498.475519423859	0.208560695725838
GTCATAGTCA	498.514403770037	0.47749528624988
GTACGTATGAC	498.633233864111	0.353425809538877
GTCATACAAGA	498.696544904167	0.456132426675948
GATGACGCCTA	498.744657632914	0.320403770821493
GTCACATGACA	498.798512384293	0.382947494242763
CCAAGAGTCAG	498.799146300682	0.145653175785681
ACGTGTATGAC	498.825852499392	0.229781149895061
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CCTTGGATGAC	498.893688839132	0.227801604202242
GTCATAACAGA	499.033099894516	0.3271962673581
ATGACGTCTTA	499.122565214169	0.320464360026048
AGCTGACGTCA	499.123366239797	0.576539291414991
AGTCACTCTAT	499.180477042235	0.376736998084566
AATATTGTCAT	499.216910812996	0.327009069549015
ATTACTCAAGC	499.557105606345	0.264535932046674
GCCTTGACTCA	499.638021762325	0.319167719505694
AGTCATGGTCA	499.768824336354	0.338781488030864
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GTGACGTGACA	499.797862655144	0.253000859030819
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CCAATTGCTCA	499.957067667066	0.24225345816112
CTCGTGTGTCA	500.051451767935	0.502793573735951
CAACTGCGTCA	500.130412604516	0.263534598929164
GTGATACGTCA	500.176483578129	0.280920921841208
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TGACTGCGTAA	500.347373151894	0.535252178438991
GTCATAATAAC	500.395781047288	0.335403181513403
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GTCATCGATAA	500.467943000035	0.269021750795144
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AGTCACTCTTG	500.55487301207	0.252429035033242
CACGCGATGAC	500.768432518597	0.575277779968712
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ATGACCATGAC	522.933819916872	0.278588531191749
CTCGTGATTCA	522.981710627378	0.350533800696202
CACAAGACTCA	522.990540191542	0.166980574711933
GCATCGACTCA	523.052229755255	0.272234887422764
CGTAATATGAC	523.234884916019	0.359002679682151
ATCTTGACTAA	523.299295131963	0.240679741781807
CTTCTGTGTCA	523.314844614601	0.292557044583735
AAATGGATGAC	523.351315370467	0.332299857081247
ATGCTGACACA	523.490906456139	0.623679619056874
ACACTGTGTCA	523.54240387773	0.237924211334823
GTCATTAATGA	523.572039364383	0.192102729512945
TCCGTGATTCA	523.678253020969	0.191345882297999
GATGACAGTAC	523.7497999704	0.170603220470924
AAGCGTGACTA	523.868538131941	0.388529566714313
GTAATCCGTCA	523.883620116319	0.259379718384504
ATGACGCGCAA	523.952186905473	0.329399067540182
ACCTGACGTCA	523.998152575006	0.27296573134162
GAATCGATGAC	524.05460503637	0.43984416524241
CGCGGTATGAC	524.056754541023	0.365926714524045
GAATCCAGTCA	524.058408503929	0.338862014601765
GTATCGACTCA	524.059544986494	0.193224383430936
TCTATACGTCA	524.169387800651	0.292369361969508
ATACTGTGTCA	524.44551444064	0.428100380335562
GACATCAGTCA	524.498830745662	0.252861439183049
TGACTAGTACA	524.510069710444	0.40233518314798
TGACGCACGCA	524.5136130428	0.177333810871302

GACTTCAGTCA	524.539460542603	0.573638761578045
ATTTAGACTCA	524.661273918045	0.191920557274325
ACCAAGTCATC	524.705833746106	0.3672080787571
ACTCATAGTGA	524.815734556944	0.21193571532687
GTCACACCTGA	524.875268494664	0.466885829137802
AATCATGTCAT	524.945080639233	0.279012972391636
GTCATTTCTGA	524.992251806134	0.206860153113284
AAAGATATGAC	525.018972591148	0.281979727381582
ATGACGTTACA	525.043268123211	0.298630383357565
CTACTTACTCA	525.142889033771	0.207735765777047
TAGACGACTCA	525.180097897194	0.311514838915168
AGTCACCCCTC	525.202111351933	0.279972910760522
GTCATAGTAGA	525.213967748069	0.161871279670418
ATTACGCGTCA	525.259017568226	0.276552227720052
GATCTGATGAC	525.470377353708	0.296852491224521
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CAGACGATGAC	525.768948494209	0.194054392688008
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GCCCCGAGTCA	525.932731102029	0.212044514518798
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CGCGTTAGTCA	526.991457186178	0.529664001302286
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AGTAACAGTCA	527.628908134415	0.31517394561291
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CGTACTAGTCA	527.879523280078	0.465661954546076

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GTCATCTTTAA	528.318077948111	0.594040965514435
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GTCATCAGAAC	528.709933264455	0.671639209391384
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CACTATAGTCA	543.963577704319	0.35232040370908
TGACAGATTAA	544.070735521069	0.421872198614253
ACCTGATGACG	544.159422989566	0.249307397375442
ATGACGACGAC	544.333887676805	0.330501141163425
ATGCGTCAAGC	544.419884476923	0.508382584870501
CGTGACGTGAC	544.572784452624	0.101061380690231
ACGGTGATGAC	544.585892952068	0.233331284238414
AGTCAGATGAC	544.619257136411	0.195482218606332
ATGAGTACGAC	544.62345976	0.390418472368484
GTCATTCCTGA	544.811257793501	0.510909575181414
GACTCGACTCA	544.845718875117	0.257301289303847
GTCATCGTAAC	544.846226341282	0.616308773112279
CATCACAGTCA	544.928579026721	0.232323531350712
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AAGTATTAGTC	545.083886375925	0.237365640323359
TCGTCACGTCA	545.112965260846	0.172102398948174
ATATCTATGAC	545.140131955109	0.383616067965432
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AATCCGTCAGA	545.222067456216	0.249140591264015
TGAGTGACCAA	545.240751349658	0.34987143977406
GTATCTATGAC	545.279595202237	0.30656141625057
CCGATGGGTCA	545.311830630119	0.398872815290228
ACGTTGATGAC	545.536339332241	0.290598784223168
CCTCATAGTCA	545.612862481696	0.247742799656285
ATGACTGGGGC	545.673590700388	0.208784216409482
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ACGGGTGACGT	545.882684412055	0.38480252315552
GAAAATATGAC	545.900404798209	0.208069587535188
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GTCATTTTGTGTA	546.13910534562	0.420719750365292
TGACTACAACA	546.254515841639	0.293383170302614
AACTGATGACG	546.420889816519	0.357303368719148
AGTCACTTCTA	546.48156532028	0.3024705974791
CACGTCACCTC	546.486211695567	0.27068608762408
ATGTAAGTCAC	546.59744947578	0.192124044208054
GTCATATCTGA	546.602718964019	0.391858035087247
GTCATAGTATA	546.659805511493	0.316246738874391
GTCATATCACA	546.664963998386	0.321068494165472
CTTATGATGAC	546.74956776365	0.381485157458233
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CTAATTGCTCA	547.175433553952	0.288850440185431
AGTCACCCCGA	547.256591805738	0.315983344584403
ATTTGTATGAC	547.259523651413	0.289881779228278
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GTCACACTGAC	547.868803047821	0.323532539143432
TAGTTGACACA	547.892259116926	0.356751742725
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AGCGTGACTAG	548.029006637088	0.246764866843645
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AGTATTGTCAT	548.498960092933	0.181640509433615

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AGTCACTTCAT	548.958382056998	0.298425566608698
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CGTCAGACTCA	549.217465084755	0.39338265517405
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CAGTGTATGAC	550.256195754115	0.216303574398613
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TAAATATGTCA	550.773562357494	0.346412570387438
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GCCTTCAGTCA	551.514103478777	0.380227277477585
CAGTCGATGAC	551.688688045465	0.578774011135136
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AGAATGATGAC	552.690752904284	0.170780290345107
GTCACATGTCA	552.843698938553	0.31958202931504
AAGCTTACTCA	552.853161334213	0.367605989080966
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GCGTCACGTCA	555.982277775367	0.504479642544797
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GAAGATATGAC	558.20856687541	0.198944412254985
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CAGTCACGCTA	562.978429119142	0.298537091082905
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GTCACGCGTCA	563.178026539219	0.217149193917581
GAGGGTATGAC	563.208141336958	0.210066785449074
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GTCACAAGTCA	563.398565286598	0.12214437061244
AGCTTTAGTCA	563.484319332683	0.147829126436916
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AGTCACTTCCA	563.570689579846	0.393858990758031
ATCCCGATGAC	563.576389839827	0.26983086571988
GAATCTAGTCA	563.607625688273	0.601278040910282
CATAGAATGAC	563.67355352958	0.370444169635453
AGTCACTCTGC	563.682503917133	0.2483183024012
GGAGAGTCAGA	563.703655744592	0.225406007683862
CCGAAGATGAC	563.73902558679	0.466623589277224
AATGATATGAC	563.815847379767	0.170781688727069
GTCAATGTGAC	563.847850272423	0.0989068968440799
TGATTATGAA	563.84912263399	0.571884817864395
TGACTTAATAA	563.859144938361	0.365378882407415
GTCATACAAAA	563.911167935092	0.503664533411505
AGCGGTATGAC	564.006922517589	0.259370354910452
GTGACGCATTT	564.038675587981	0.322144913601345

ACACAGAGTCA	564.048481766118	0.435211225638445
ATCGTACTCAT	564.087463281272	0.300560641257841
AGTCACTCTAA	564.174255971463	0.180556875611123
TGACGCGTCAA	564.175796016324	0.174631039585819
AGTCACGCCTA	564.369032671037	0.297519276729537
CATTGGAGTCA	564.38134525155	0.377136078297065
TGACAACGTCA	564.416478328828	0.369977322804672
CCCGATATGAC	564.422745370283	0.274868536369483
CTTCGGAGTCA	564.427411694461	0.301090165084404
AACACTGTCAT	564.451508793765	0.339072704676487
GACCAGTCAGA	564.5526721767	0.334721335071896
ATCGAAGTCAT	564.617030395359	0.206066376245916
CTGCCGAGTCA	564.860978383289	0.276594702797668
GTCACCGATTA	564.871743838031	0.358328180265716
CACTGTGTGAC	564.90382913794	0.236331791520157
CTTGCTATGAC	564.912469379599	0.319104632910784
CAGTATATGAC	564.970268602397	0.491819710254757
GAGCGTGACTA	565.171554993059	0.209289404648985
ACCTGGATGAC	565.190166523061	0.331938404970091
AGCATGACCCA	565.224463690538	0.274883482581187
ACAATCCGTCA	565.297731069279	0.224597492759701
CAAGTGACGTG	565.311755392363	0.101076293041201
ATGACGATGAG	565.360176599566	0.352033629078061
AGGATGATGAC	565.444520533391	0.258140672847062
TCATGGAGTCA	565.563215512687	0.358869689686059
CAGTCATGGTA	565.571220321346	0.36444712293881
ATATGGATGAC	565.612307806585	0.222840850085627
ATGACAGAGCG	565.710489201702	0.267396005669387
CGTCATTGTCA	565.746601271643	0.181077555112987
AGTCACTCTAC	565.797589767234	0.274958437982257
CTATGGATGAC	565.836115335211	0.278902026073428
AAAGGTGACAC	565.857936553672	0.263840585922311
TGAGCAATCAA	565.95315812364	0.631680406728621
GTCATCACGGGA	566.010271361016	0.309432465197134
GCATATATGAC	566.058687109764	0.37439307883025
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GCCTCGAGTCA	566.190737341937	0.268065033061098
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GTCATAGACTA	566.26846467373	0.466692608988072
GTCATATCTAA	566.310634235157	0.378054161117049
GTCATCGAGTA	566.320313113823	0.313365828456205
AGACTAATTTA	566.345424690842	0.311903484045612
GACACAATGAC	566.347750782552	0.383370274350346
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GTCATCCAAGA	566.398117096437	0.208617740269513
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GACGATATGAC	566.438851318011	0.434720529017316
TAATCCAGTCA	566.499298333383	0.144197188161117
AGTGCGAGTCA	566.508912437169	0.206837265500583
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AGACTAATACA	566.78295273345	0.26733576171363

TGACGTCAACA	566.857853436573	0.495678776307464
GGAATACGTCA	566.875580174585	0.438760135156091
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GTCATTGACAC	567.650613803141	0.346463494457842
GAAACGATGAC	567.653617763509	0.283732203728564
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TCAATCCGTC	567.773473403647	0.420423895571423
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GTCATCGAGCA	567.8225639754	0.350503313583877
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GTCATATTGCA	568.055520840692	0.422275168887624
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ACCGGTGACGT	568.225853344628	0.356210036882743
ATCGTTGTCAT	568.247911660721	0.23447132648781
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ACTCGTGACTA	568.775523762706	0.242925976610333
ATGAGGATGAC	568.812731832226	0.258868954149267
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GCTCATAGTCA	569.098606244077	0.310328796028619
ATTAGGTCATA	569.110753799746	0.22892437056884
ACTGGTATGAC	569.152986588972	0.23201227232826
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GTCATAGGTAA	569.281130020026	0.291060923086675
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GTGAGTCTGAA	569.812237893792	0.205681293870268
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CACAATATGAC	571.528980613683	0.197421996641665
TGATTCACCAA	571.661933296492	0.246905940453555
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ATCTGATGACG	572.174635364653	0.365756398754294
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AGCATCGTCAT	573.749969960836	0.262831545696373
CACCTGCGTCA	573.768465201764	0.232572286656663
GACGCTATGAC	573.829628314913	0.413947552857597
GTGACACAGGA	573.830586538217	0.207590607025799
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GAGTCAATTAC	574.575826344745	0.0903983164969521
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GATCCGATGAC	574.67288377074	0.34453680662363
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GAGACGATGAC	575.060859629098	0.267060721802366
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AAGGCGTGACT	579.915961953199	0.28315464623888
TAGATCCGTC	579.958440302275	0.226831085316684

TGACAAAGTCA	579.96102186646	0.388987420182163
GTCATTTTCGA	580.020405030212	0.403543713604818
GTCATTTTATTA	580.12829750305	0.302332084418609
ATGACAATACC	580.137726493194	0.305979511561248
ATGACACGGCG	580.159421787132	0.342039424160604
AGGGTAGTCAC	580.169328984557	0.201121095890024
AGTCACTACTA	580.200576803719	0.222484295178687
AATGATGTAAC	580.388427092179	0.256916794392381
AAAATTGACTC	580.443557652133	0.250201562009338
AATTGCGTAAT	580.515279940051	0.202392610669352
ATGACAGACTC	580.521945061479	0.204721305035
AGACTAATAGG	580.549453614413	0.26673658102236
ACACGTGTGAC	580.552581504879	0.32721805728829
CATATCTGTCA	580.77661899956	0.182386132142328
CGCTTGACTAA	580.849911611617	0.410933257119243
ATCAAGATGAC	580.865682700407	0.319441556139229
ATGACGCGCAG	580.906638729546	0.293731311461542
ACGCAGAGTCA	580.963232652568	0.193791916644835
CTCGGAGTCAG	581.089615419641	0.228331158701243
TGAATCAGTAA	581.116693751103	0.32319832009618
CGACCTATGAC	581.21441020425	0.510390282426278
GACAATATGAC	581.282114022776	0.44771691364305
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CGTAACAGTCA	581.331554499283	0.305698908260452
GTACGAATGAC	581.49126491053	0.22829620765
CAGATGATGAC	581.535829703442	0.357579189240919
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AGATTGATGAC	581.614443407389	0.20412139836404
ATGACAGCTAA	581.736582035149	0.26864604403864
ATGGTGACCCA	581.739329649523	0.283057512660536
CGTCATCTGAC	581.799559589182	0.224155859456394
GACTTGACTAA	581.833636573208	0.485637935235232
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AGTCACGCTTG	582.067377036878	0.226082925989545
ATGACAGAGAG	582.131069941437	0.323741191391651
CATTGAATCAC	582.188406515123	0.24344801062905
GATGCGATGAC	582.295371100943	0.199591970059197
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GCATCGATGAC	582.410512129797	0.635868488879179
AGTGATATGAC	582.478352091927	0.355513007327411
GTCATAATATA	582.714415607201	0.438147432904039
GTCATTCTCTA	582.737136070357	0.256037908968876
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CGTCATCTAGA	582.845199191058	0.259764190678511
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ACTAATATGAC	583.031987983284	0.124710836454325
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TAGTTGTGTCA	583.143533548806	0.159101444070017
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CAGCATATGAC	584.221692722317	0.456058651757684
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TAGCTTAGTCA	595.729387926052	0.32906204960567
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GTCATATCCGA	595.922845816386	0.233271916801632
CGTCATTGTGA	595.926243031437	0.383956455876723
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ATGACGGAGTG	596.201269863854	0.252129061332619
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TAGCTTACTCA	596.231833002	0.258590626507838
GTCACCGTCAC	596.31200738715	0.257732055047417
CGTCATCAGGA	596.31810667661	0.462905005879202
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CAGCGTGACTA	596.41506074342	0.148178890945062
ACTTGATGACG	596.419931327703	0.365371181764247
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GCAATTGCTCA	596.472064702305	0.391826100633733
ATGACGCCGAC	596.504128305906	0.284758859619644
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ATGACACGGAA	596.569140692885	0.25500440745473
GTCATACAGGA	596.615603478023	0.327846168320456
AAGTCGTGACT	596.618070834511	0.310653551234606
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CCAACGATGAC	596.748146123063	0.351464406941005
GTCATAATAGA	596.812892761082	0.202702373272983
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TAGATTTGTCA	596.998226543211	0.245777973367118
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AGTTATATGAC	597.015057066761	0.330466285580618
ATGACAGACAA	597.031147873552	0.207966550710476
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GTCATTCTGAA	597.241552149229	0.406693751767764
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CAGTTTATGAC	609.957699460042	0.340624057070626
AGCTCGATGAC	609.988398673912	0.313062195251207
ATGTTTCGTCA	610.029931764634	0.190279183996634
GTC AAGAGTCA	610.087811607063	0.320113914346127
GTCATCCATAA	610.116123756348	0.173086850929283
CCATGGATGAC	610.237091282309	0.316210471736454
AACCGTGACTA	610.261352503232	0.29398461575232
GTCATAACCAA	610.27129407574	0.296673786218348
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GGTGTTATGAC	610.341897598066	0.269780028486578
ATCGCGATGAC	610.35729703516	0.223010463733488
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CACACCAGTCA	610.398423329457	0.237256708671548
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TGTCATTGGAA	610.507450599668	0.25428565303035
GATTCTATGAC	610.518886609379	0.200624968004933
GTCATCTAGGA	610.583768204167	0.429059241353301
TCCCTCAGTCA	610.652138980071	0.406340867362208
GCGTTTACTCA	610.666649255297	0.267317433808946
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GTCATCGACTA	610.769334096579	0.313352885575299
GAAATTGACTC	610.829900522485	0.327249415014542
TATGACGGTAA	610.835445836596	0.212961422558178
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CGATTTCTGCA	611.004267345986	0.376352399881691
GTCATTCAGTA	611.092364002057	0.322873103862353
ACGTGTAGTCA	611.210405246269	0.210915447918786
AAAGGTGACGC	611.225308180157	0.236929805004214
GTA CTGATGAC	611.298883140343	0.452805008185716
ACGTCACCCGA	611.466866091339	0.255742371098517
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AGTTAGACTCA	611.630018218404	0.210255171233529
CCATTGACTGA	611.632249411043	0.461215434595783
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CACGAGATGAC	611.700620199739	0.342179131542997
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AAATTGATGAC	611.79778260494	0.323551035203969
CTAAGCAGTCA	611.842992557995	0.425110231777327
CTATTTATGAC	611.915080041506	0.26297205198385

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ATGACGTTGTG	612.083924867928	0.22676035051496
GTACACGTCAA	612.120911155992	0.348015925473145
TGAGTCGGACA	612.122254090741	0.359199550812369
TAGCCTAGTCA	612.297320447204	0.365526376863519
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GAGTAAATGAC	612.380916416507	0.312280971102923
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GTCATTATTTA	612.483773387964	0.294151110513886
GAGTCGATGAC	612.524051982452	0.332856017471524
CAGGCGTCATA	612.600870420845	0.203285081771093
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AGACTCACTCT	613.362736595179	0.23434546516793
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CACCTCAGTCA	613.489653808719	0.188163996419924
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AGCAAGTCATA	623.850351961353	0.209508208879255
GTCATCCTGAA	623.855387493625	0.380948417432087
AGCATGACACT	623.894194384274	0.239486011398802
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ACATCTATGAC	624.541386907283	0.423291481942558
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CGTCATTCCTA	624.639000707419	0.301994370467685
GCATGCGTCAA	624.656822478315	0.335538518491002
CACTTGTGTCA	624.66027062479	0.293833019208067
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ATCCGACTCAC	624.726715626285	0.25718438813911
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GTCATCAATCA	624.993942235674	0.154862050446067
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GGTAGGATGAC	625.042710307846	0.254581840059585
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GAGAATATGAC	625.376171511785	0.224689342976011
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ATGACACTCAG	625.649969771239	0.327698170078603
ATGCGTATGAC	625.651671795132	0.322932421586555
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CCATGGAGTCA	639.213486628948	0.467386084355324
CGTCATTTGGA	639.333074830453	0.26347262843486
CATTGACACAC	639.381551915553	0.234145439001619
TCGCTGTGTCA	639.401224409096	0.289593640177927
TCTTTACGTCA	639.421217781838	0.321461453788574
CTATATATGAC	639.452804225359	0.277756016080531
TGACTGTAACA	639.47724152703	0.161177561909606
ATGACGGTATG	639.507029372175	0.269759217424367
GCTTGCAGTCA	639.509663748892	0.345929964769206
ACGGAAATGAC	639.534377440613	0.300532323364849
CGATGAATGAC	639.536989403136	0.345016607186862
CATGCGAGTCA	639.53957749327	0.208189044569435
ATGACCCAGAC	639.58062294341	0.223995169594891
GGAAATCCGTCA	639.594411523702	0.453357462105366
TCATTAAGTCA	639.685280649197	0.502134211267063
GACAAAATGAC	639.692391590793	0.207556014612177
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ATACTACTCAT	639.736795770374	0.196703076341371
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GCCCTGTGATA	639.786220679901	0.147368957081584
TGACGAAATCA	639.787601593068	0.448059720374107
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ATGCGAATGAC	639.905809284921	0.433705864026335
GTCATATGTGA	639.925444614524	0.31060923377482
ATGACATCGTA	639.93307894885	0.303008172783202
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CGTCAGATGAC	640.133195049347	0.259146694843925
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TAATAATGACA	640.15274362395	0.12265611175572
CACCATGACTG	640.167145616168	0.213096960344584
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GTCATTCTATA	640.233139400871	0.270198011180324
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GATGACGTCGC	643.928916267113	0.150562356434485
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ATGTTTATGAC	652.165571136119	0.355896440310429
ATTCCGACTCA	652.203990543986	0.241417672974485
AGACTAATTCA	652.282624310846	0.269820883661417
CTGAGGATGAC	652.292631181342	0.156648460122391
AATAAGTGTCA	652.332698520738	0.445751461426278
CTGGGTGTGAC	652.379730531568	0.35808289545721
CCGTGAATGAC	652.408467667372	0.356238170703189
ATGACAGCTTC	652.447739198804	0.0984147522268018
CCTAGTGACAC	652.454870881544	0.338431282755347
CGATGTGTGAC	652.485263352558	0.242801391556423
ATGAGTACCTA	652.491582991123	0.218454881955972
GTCATCATGGA	652.499016866359	0.252952819306597
GTCATAGCATA	652.591512087513	0.353436554209945
ATGACTCTCCA	652.628298363225	0.244123548616985
ACGTGTGTGAC	652.661456043651	0.108949829446364
GTCATTCAGAA	652.745200320148	0.304668202648307
ATAGGTGACGC	652.759570985677	0.180090581481525

CAGATGGGTCA	652.767014710937	0.233791775900604
GACGTGGTGAC	652.770187773921	0.292821811622219
CGTCCTAGTCA	652.9090508757	0.293622432759063
GTCATCATATA	652.940153204072	0.37474975385377
ATGACAGTGTG	652.940266393789	0.230856956364852
CCATAGATGAC	653.041684791566	0.536648163085568
GTCGTGATTCA	653.043044237716	0.411872832131174
AGTACCGTCAT	653.075545638258	0.303578963058163
TAGGATGACCA	653.141448506808	0.259489009567738
ACTGAAATGAC	653.182009287626	0.238057382403627
AGTCACCCAC	653.187337434724	0.287656709328499
AACAAGTCATG	653.19673168668	0.148877300299124
AAAGGGAGTCA	653.199137235875	0.179653582343069
AATGAGATGAC	653.256183401829	0.325446153388962
GCAATAATGAC	653.323718835398	0.266074805889877
GTCATTTCCGA	653.351616748257	0.235356585440302
TATAAGTGTC	653.434534222164	0.408234542981032
ACACCCAGTCA	653.485155002913	0.378358800537835
ACATTTTGTCA	653.506609714756	0.391092753726188
AGAGATATGAC	653.613386298189	0.231243448913108
AGTATTAGTAC	653.616537774365	0.28749123338577
ATCGTGAATCA	653.62752700177	0.256386245140339
CTCCTTAGTCA	653.652088692613	0.317956168298556
GTCATCTAAGA	653.660791168772	0.380562523231123
GGAAGGATGAC	653.699702455819	0.245009203540931
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AGTGTGAGCAA	653.973779232223	0.184438629841922
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AGACTAATTGG	654.044945745978	0.199887477834443
GTCATCGGGGA	654.169951948532	0.224279392596522
TGACTGCGCAA	654.203552400847	0.476505244511076
TGAGTTCGCAA	654.254454545124	0.195541578268195
GTGTTGACTGA	654.288084374875	0.31006771727649
GGGAGAATGAC	654.29242166768	0.198543362982899
CATTTGACTGA	654.294148009189	0.260640762823065
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GAGTGAATGAC	654.487505762102	0.26412171398209
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CAGACTAGTCA	654.62841836369	0.364541321996761
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CGACATATGAC	654.77385337372	0.325844573587905
GATGGCGTCAC	654.833671501799	0.3097421024726
GAGCATGACAC	654.881266067761	0.191641399902492
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GTCATCACGAC	654.990605464352	0.208691032563843
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GTCATCTACGA	655.255910443834	0.311708832003543
ATACAGATGAC	655.316441271367	0.189012668505875
ACGTCACAAC	655.318352760215	0.303710781056201
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CCTATATGTCA	655.689525988055	0.0578705402866506
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TGACACTTTAA	655.913855252237	0.44408036571677
TCGATTGGTCA	655.95652286814	0.303187012099434
AACTTTAGTCA	655.986003438644	0.453302641944243
GATCATGACGC	656.003599756346	0.359640818406774
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CTCGCGAGTCA	656.149926997188	0.214761566411969
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ATGACAACGAG	656.203062678943	0.223864981853616
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CAATTGTGACA	656.359425176961	0.400033096176895
CAGCTGTCATA	656.359469507426	0.132325142238243
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GTCACTCGTCA	656.625013329387	0.257366897302898
ATCCTGACACA	656.663747733907	0.232632262810076
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GTCATCTTCCA	657.831650735504	0.208673978602201
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ATCAAGACTCA	664.170804602648	0.338088887419041
CAGTCACGCTC	664.189667557334	0.286464468184631
GGCATTATGAC	664.196432799884	0.175877584909283
CGGCTGACACA	664.218469429876	0.482773951176787
ACCGGGATGAC	664.252228406301	0.212547315401969
AGCCAAGTCAC	664.423395892346	0.300109596242974
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GTTATCCGTCA	664.452901605866	0.323598284021268

CGAGTGACGAA	664.463735496015	0.296849377295426
GAGTCAATAAA	664.467818893591	0.391277920529047
AGTCACGCCAC	664.547560836855	0.243555276798152
CGTCATCTGAA	664.603455582929	0.3015017034307
ATGACAGACAG	664.720005933474	0.17251008139181
TAGGGGAGTCA	664.772898897166	0.210328501485523
GTGACACTGCA	664.817191402387	0.345702078328444
GTCAGTGACAC	664.845761945658	0.315637035382416
TACGTTACTCA	664.849811273533	0.402986288649106
TCACGGTGACA	664.865895634308	0.346056928680669
AACCTTATGAC	664.871440635108	0.355381796159435
GAAACGACTCA	664.914487155521	0.215309514371479
CAGAGTGAGTC	664.92195300215	0.16301335392545
GTCATCCACAC	664.948412802803	0.255976222809346
GTCATCGCCTA	665.075050672551	0.18783675244644
CCGAAATGACA	665.124596619451	0.229564861742442
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GTCATCTTGAA	665.196637402261	0.249490105362752
CAGCGTGTGAC	665.197271090556	0.235354506366637
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GCCATAATGAC	665.249271767895	0.303556940681634
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CTTAACAGTCA	665.348700592901	0.42083333839146
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GAGTCAGTATA	665.408363710854	0.118835113400657
ATGACAGACCC	665.428603616036	0.238930873064698
ATAATTGCTCA	665.441925736094	0.346160193930692
AGCCTCAGTCA	665.489798459823	0.305048846017904
CGTCATTGCTA	665.531835990251	0.268025330415443
GTCATCATGCA	665.538773953226	0.332579305380445
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CGCTATAGTCA	665.695911458599	0.319569130793777
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GTCACCATTTA	669.341617379012	0.234173424742303
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AGTCTTCGTC	670.352470789051	0.311529303355156
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GAACATGACGC	675.591811417317	0.257564387207334
CTCTCGATGAC	675.62299371082	0.322921054917464
GTCACTGTCAC	675.664701653486	0.245969973373393

GATTGGAGTCA	675.687723317597	0.280738830403765
ATTACTGACAC	675.744329582264	0.261198197267434
CAGGCGATGAC	675.830478324358	0.247588518054717
CTGCGTATGAC	675.877789024824	0.0480746351114545
GTCACTACTCA	675.887930151291	0.288887400958136
GTCATCCTCCA	675.892956884662	0.273264749458041
GAGTGGAGTCA	675.902390928026	0.198618169750852
ATCGTGGTCAT	675.904055407885	0.230894903231963
GCGTCACCCAA	676.015841620984	0.18493041889925
GCCATGTCACC	676.03836635904	0.225264497654505
ACGTTAATGAC	676.043385800061	0.369589459603563
CATTATGAGTA	676.046593006491	0.306549358740316
CGAGGAATGAC	676.11535462345	0.187664102506296
GTCACGTATGA	676.138592400563	0.257854250170368
AGTCACTACAG	676.14111684941	0.318373158369037
AGCATTGACTC	676.165489678463	0.331666406378519
AATGGGATGAC	676.167691579299	0.342427929485058
ATCCTGTGTCA	676.214535436681	0.208603360389566
AAACTTCGTC	676.241942469529	0.366837597154821
GCTTGATAGTCA	676.263156847785	0.158245201507552
GACCAAGTCAC	676.275163477992	0.431755847655958
GCATGGATGAC	676.327890180962	0.279600239912372
TCGTGTAGTCA	676.363027862369	0.371161150559012
GTCATCTCCGA	676.370078166902	0.22090601933899
GTGTCATGTTA	676.395465074068	0.261273869225258
CGCATTTGTCA	676.415466000444	0.270094989483327
ATTGGGATGAC	676.447777505171	0.167418929273014
ATGACATGCCA	676.497181539407	0.315514093376652
GGATTTCTGTC	676.654818393995	0.35670899884526
GAGTCAATACA	676.686915697659	0.285839600666935
GTCACCCGTGA	676.70789293733	0.398343989592319
ACGCGGATGAC	676.73976423702	0.282695535812752
TGGGTCACGAA	676.751063406601	0.178418013328222
TAATAGTAATA	676.79401289712	0.145170903184944
TAGCAATGACA	676.801370505715	0.242830476902979
TATGAGAGTCA	676.846626289747	0.201584993826228
GCAGACTCACA	676.847810070738	0.28066074131258
CAGGGATGACG	676.877998898913	0.324348732654663
AGTCAGAGCCG	676.881084763871	0.294969470033672
CTCATGACCCA	676.901532047487	0.241761850874472
ATGAATCAATC	676.911001130124	0.369362096612301
CAAGGGATGAC	677.04236635783	0.285824691187076
CCGATATGTCA	677.078528604456	0.24046578490458
GACATGAATCA	677.121061292888	0.418004493381611
GTCATCCGCAC	677.125216376443	0.313881304547422
TAGTTGACTGA	677.143736306841	0.246380643190119
GACTCACTTTA	677.146894339078	0.197270742455569
GACATGATGAC	677.151704649449	0.420188056970997
ACGCTTATGAC	677.254315784984	0.279337556745278
AGTCAGACTAT	677.327725535029	0.196852533554808
AACGTGTGACA	677.355395760993	0.112727293903094
ATGAGTACGAA	677.412393489939	0.265761105737349
CAGTGCAGTCA	677.437282945626	0.555151111105543
GACACTGTGAC	677.438483858265	0.242924876661429

AGACTAATTGC	677.451261464842	0.243791923115745
AGTCACGCGAT	677.566405967001	0.204475003100177
TACCTGTGTCA	677.574755054024	0.189307629386157
ACTGAGATGAC	677.585301075382	0.184176706201155
GATGACTTGCC	677.718711020636	0.285731671094466
CATCGGGTGAC	677.720875284794	0.201023304368115
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ATGACGTTGCC	677.769542087192	0.131815294387481
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GTCATCCACGA	677.896232236596	0.260444741119167
ACCTCATGACT	677.897666338662	0.148701784055368
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ACGTCACCACC	677.988486164433	0.221916192197642
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AGTCACTTAC	678.058022747418	0.190589359147118
AAAAGCAGTCA	678.072111418071	0.349753325003054
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CGTCATCTCGA	678.2861997817	0.209915507660007
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CATATAATGAC	678.353023523251	0.347413174647923
CATGACAGTCA	678.384458015037	0.24103330257336
GACTAAATGAC	678.409540883753	0.163261127522558
GTCATCGGCTA	678.432206647637	0.348690892883534
ATGACATTATA	678.437883092224	0.243657925347797
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GGATAAATGAC	678.668541728449	0.212242801318049
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CTCGTGTGACA	678.786788024329	0.322902919762372
CGCCGTATGAC	678.795324439089	0.411067971827689
AGTCACGGCTG	678.816036610652	0.140117282562008
GTCACACTGAA	678.826912283753	0.16600339005064
CATCGGTCAC	678.856962682891	0.292467237738476
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CACGTCACTGG	678.996782835373	0.306799044661928
ACGATGAGCCA	678.999372775287	0.08493807942982
CAGGTAGTCAC	679.074963887945	0.191311908974685
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AGGAAGATGAC	679.123260310804	0.243993912764904
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TACACCAGTCA	679.231302468871	0.221762438293338
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CCGCATGACAC	679.269833207225	0.157985406046767
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ACCAGATGACA	680.519142306621	0.219969230013798
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GTCACTGATGA	686.774088647986	0.309188192656204
GGTTGAATCAC	686.784143366609	0.197817682468246
AAGCCGTGACT	686.844697065029	0.324828157545227
GTCATGCGTGA	686.943831555917	0.377227542243972
ACGTCACCCGG	686.946015327786	0.316937656055477
CCTCGTGACTA	687.041244056167	0.274963981603627
AATGACGTGCA	687.069449968355	0.272613855655287
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CGGAAATGACG	687.125387239915	0.245651106023514
TCTCGCAGTCA	687.129955467498	0.326872769729034
AGCCCGATGAC	687.155627798515	0.254215804103353
GACTCTGTGAC	687.168689542862	0.191397811686448
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GAGCCTAGTCA	687.198513846833	0.29187094656161
GTAATATGTCA	687.205472846605	0.254253687447377
CAGAGTGTGAC	687.20739156069	0.227873415877579
TACACTAGTCA	687.258889341534	0.37741180641595
AACATTCGTCA	687.319248922375	0.465925041118658
AAATTTGCTCA	687.361143446084	0.463809108358125
GTCATTCGGGA	687.377961264842	0.31153783961527
GGGTCTATGAC	687.470602172623	0.387081615115143
GGCCACGTCA	687.560874078304	0.215767466631283
CATACGCGTCA	687.61760360833	0.134599875102672
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GTCATTTGCAC	687.633256921379	0.260076645245526
GCTTAAATGAC	687.661080023444	0.304296568617833
ACACAAATGAC	687.694849493806	0.132091732454426
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GCTCGTGACTA	687.756360592588	0.27443352936902
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GATCAGATGAC	687.811714805259	0.29307473024572
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CTATAATGACA	687.888918315174	0.30332430569575
CATGGAATGAC	687.912781571939	0.133930353906053
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CTGTATATGAC	687.983391735729	0.428089350584522
GTCACATATAA	687.9882278795	0.206739060240377
AGGTATATGAC	687.996695611762	0.243405493836351
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GTACAGATGAC	688.022024226869	0.305602111308537
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GTCACCACGAA	688.167184582975	0.493112817619802
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GAATTGATGAC	688.276981568403	0.338088154237808
ACTTATATGAC	688.299393213984	0.313867715711413
AGTAGAATGAC	688.36467922062	0.173115713430133
CACGTCACGCA	688.402152217203	0.370707662472448
CTCAGACTCAC	688.448577218831	0.189119662887527
AGCCGGATGAC	688.52254805477	0.286327906238984
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CCATCCAGTCA	688.598100370203	0.299737301849967
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GTCATATCGCA	688.640222273514	0.253443326057041
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GTCATCCCGA	689.026622171851	0.290539723215977
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GTCATATCCCA	689.954692316586	0.365230735252043
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CGCTGGATGAC	689.984524447855	0.208069619454332
GACACGGTGAC	689.98783974299	0.375119092635647
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GTCAGTGTAC	690.120366195924	0.425627045508295
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GTCACCGACAA	690.166537587087	0.20840670258056
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GAACTACGTCA	690.761474352184	0.3725780803307
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ACTCAGACTCA	694.200063525041	0.345843413932448
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CCGATTAGTCG	697.553296750538	0.289454598857474
CCGTATATGAC	697.58095381884	0.43128019890589
ACTCATACTAT	697.616726046522	0.226265649129052
CTTAAGGTGAC	697.691435250473	0.486363398910179
GACTTGTACC	697.694068722801	0.259860460661527
TATATCCGTC	697.710137461434	0.24925408191908
CGTAAGTGTC	697.719030244069	0.275109346226504
CACACTGTGAC	697.734414299938	0.224109814668358
CGCTGTAGTCA	697.752759186883	0.570233743192993
CACCCGAGTCA	697.769308998845	0.232641335828491
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GATCACAGTCA	697.875233712429	0.310248173032073
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ATGACATTTTA	697.884083819272	0.271695384251283
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GTAACAATGAC	698.029602738493	0.219484667540813
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CAGTGAATGAC	698.149012780297	0.170519110419085
AGGCAGATGAC	698.149018569487	0.299415821369663
CAGTAGACTCA	698.192088231805	0.196511034008225
AGGCTTATGAC	698.263292610851	0.0533467989940687
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GTCATTTTCGAA	698.471362675169	0.30130529831376
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GGTATGATGAC	698.635806110863	0.268184162179004
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CACAAGGTGAC	708.291751149383	0.442568290529456
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GTCATAAGCGA	708.438454290451	0.276818140127639
TACTATAGTCA	708.492312077909	0.206869810447574
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GTCATCTTGGA	719.114155457595	0.265192757274692
ACTCATTCTGA	719.136620282505	0.18303126259232
ATCATTTGTCA	719.160249820451	0.28129537282114
ATGACCCTTC	719.163221775442	0.141379006697627
GTGACACGACA	719.168116821088	0.222480686162935
GTCATCACAAAC	719.208463344573	0.263852791934081
AGACCTGTGAC	719.246029005395	0.334710383013394
AATATTGTAC	719.314368896835	0.341688155600042
AGTCAGACTGA	719.317073672221	0.211187906591792
ACTCTTCGTC	719.326015094598	0.160939775309741
AAACCCAGTCA	719.41677784159	0.267712881857622
ATATCGCGTCA	719.426420524059	0.213756921374251
ACGGGATGACG	719.481543375175	0.20484087370222
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GTCATCCAGAA	719.503188305797	0.140227451499088
ATTTGACTCGA	719.543577696114	0.248804143319599
ATGAGTGAGCC	719.556424549184	0.188258591933232
AAAGTGTGACG	719.619768074405	0.196630733246239
GTCACAATTGA	719.626047411575	0.259099333805967
ATTCTAATGAC	719.687532436297	0.180768495404981

CTATAGTGCA	719.73700891924	0.215382918894618
AGAGTCAAGTC	719.76559539705	0.133808753037052
TCTGATGACCA	719.88375768727	0.313477232534429
TCACTGTGACA	719.884886062311	0.348870789169855
AATACGGTGAC	719.893231090735	0.303850234826027
ATCGTGAGTCG	719.956751803681	0.246188414053375
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GACTCACTATA	720.012634048835	0.0902810479810538
TATGACAGCCA	720.055950630325	0.260225729014786
GTGACCCAATA	720.06776109915	0.149935154145785
CGCTTGATGAC	720.087778786599	0.137961624091728
GTCACACTAAA	720.119451076518	0.184301682899283
CAACCGGTGAC	720.140258422564	0.330058325940037
AGGTCAATGAC	720.208853919285	0.238055758014081
AGACACGTGTC	720.264007333444	0.351432645135866
GTGTCACATTGA	720.287147610559	0.300866408974063
ATGAGCAAGTG	720.293860927414	0.255366060787261
GCCTAATGACA	720.345961503699	0.313207455095517
AAGTGAATGAC	720.468182679307	0.212514303276677
CAACGGTGACG	720.495210720531	0.298091452765761
ATGTCATCTCA	720.545649323503	0.220457249582447
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TAACAGAGTCA	720.816393666772	0.29784811432422
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GGAACGACTCA	720.848104998445	0.34632132650041
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GTCATAAAACA	720.919825217354	0.355863739078258
GAAC TAATGAC	720.929253717118	0.210884741445784
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ACCGTGTGACA	721.019938829745	0.292624914193025
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GCCAAGAGTCA	721.14139065824	0.358774021815815
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GAGACCAGTCA	722.113712721237	0.315496576815179
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GATGAATAATA	722.408866386493	0.207084404880449
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AGCAAATGACG	722.536976799841	0.202416870668712
AGGGTCATGAC	722.548945548281	0.25402560488256
AGCACCAGTCA	722.560609362237	0.410764626882805
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ACGTCACCTCG	722.643101951259	0.305597279653795
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CGTCATTCCAG	722.798526237914	0.321823221630757
CTTCGTAGTCA	722.805423380569	0.198336350886323
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CCGCACAGTCA	722.882468924966	0.310551592737992
GTCATCAGACA	722.89260388813	0.330678209628345
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GCCCCTATGAC	723.179036186189	0.311980166909004
GCTTCTATGAC	723.196671977422	0.129169031228836
CTGATGGGTCA	723.197390003706	0.248406566859696
CTCAGGGTGAC	723.20981366121	0.410744300770133
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GCGTCACATCA	723.786570105722	0.265402812187833
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GGTCCTAGTCA	729.100818470587	0.276565846040635
GTCACCGCGAA	729.166177884901	0.234890641912888
GGTGAGCCACA	729.207881814797	0.27266364378947
ACTCATTGTGA	729.209776046954	0.285864547287917
TCTTTGACACA	729.226630085551	0.195663151769978
ACGTCATAAAA	729.252698716717	0.206470198346719
GTCATTGCTTA	729.261752181368	0.251082862749844
GTGCTGTGTC	729.3238260385	0.325894176932675
AATTATTCATA	729.330007567872	0.208679486074057
ATAAATGTGAC	729.387784602363	0.250154000065421
ATCGAATCATA	729.500606958597	0.337281333502988
GCATATGACCA	729.510065328032	0.293424803448824
CCGTTCTGTCA	729.524888537257	0.212493723672464
GTGACGCGGTA	729.540273355622	0.178771203311063
CCATGCGTCAA	729.551478152205	0.310918899253872
AAGGTATGAGT	729.555072211775	0.212202065718584
ATTAGTACTCA	729.620177240464	0.231614903887857

ACTCATAGTTG	729.631504010418	0.228628027877409
CTCAGTGACAC	729.646231893849	0.462368141841211
GAGCAAATGAC	729.692775690091	0.225801039312608
GAGTCAGTATC	729.72689681773	0.242537772370835
CGTACTGACTC	729.744218538541	0.200771876467425
ACCATGGTGAC	729.770085819537	0.256474234301458
ACACATGACGC	729.770247419554	0.299098360191517
TGACTCCCCAA	729.790657057968	0.235414069081528
ATGACCCAGTG	729.802091431105	0.225747143832344
ATTATTCATCG	729.859411241324	0.238279583539766
GTCATCAGGTA	729.865755193406	0.212347690662717
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GTCATGTCTCA	729.966639295646	0.290080021741797
ACTTGAATGAC	729.977049613487	0.320388634434177
TCCAAATGACA	729.986000476992	0.254234196224575
AATCAGTCTTA	729.988230778796	0.128733925607769
ATAACAATGAC	729.99896758208	0.341668186361462
ACATTATGAGT	730.008930348826	0.298591831943045
AGTCTGACGTG	730.054308262489	0.111907422872261
AGCTATAGTCA	730.122973624331	0.282881302468186
AACTACTCATT	730.191549288365	0.194324643646254
GACGTGACCCA	730.21985074762	0.302027035742842
CGTCATCTCTC	730.222452137003	0.21550738188155
AGTCATGAGCG	730.264358630339	0.228218254837676
AAAATTGTGAC	730.264419088037	0.330472861048386
CAGCGTAGTCA	730.267271189912	0.261923246183036
GTCATCTGCGA	730.270940750396	0.315777823007883
CATGGTGACGC	730.285054251556	0.268353418856879
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ATGTCATTTTCG	730.334618830286	0.317352222073322
GAGGGTGACGC	730.359087461014	0.156735070732771
CGAATTAATAA	730.366295236994	0.321709508297684
ATGACCACGCA	730.427524578434	0.223660285128854
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CATGGCGTCAC	730.46071144651	0.19672379279286
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GAGCCAATGAC	730.501730374825	0.295838271743324
GCCACGTAACA	730.516624371681	0.192076016830224
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GCGATAATGAC	730.569438717052	0.316859723650281
CATCTTATGAC	730.731197357598	0.216053879658835
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GTCATAAACGA	730.836615788616	0.37760044971066
ATGAGTCGGGG	730.849047564126	0.196361491448751
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AGAATTGTGAC	731.034483747914	0.307520907756628
AGTAATGACAT	731.110816907085	0.234217002191626
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GACGGTGTGAC	731.268045242605	0.264264641999858
GGCGGTATGAC	731.293138285584	0.226096498975706
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GTCACGCATGA	731.485244409485	0.295710201226012
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GTCACATATCA	731.644623677807	0.187165419959787
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AGCATTGCTCA	731.906743992174	0.283621325710654
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AGAACTTGTC	731.939706226726	0.32246169835685
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GGCAATATGAC	732.206096179582	0.287939641897344
ATGTTTGTGAC	732.212289568076	0.227040314657463
GTCATATAATA	732.234359963701	0.286275219706535
AGAGGTGACAC	732.253188669158	0.202581604224669
CGTCATCTGCA	732.264782849253	0.238610053245372
GACATCCGTCA	732.282714728278	0.293447905076581
GTCATCAAGTA	732.327938992335	0.357009515877966
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GGCACGACTCA	732.42440258603	0.290388978889897
ATGACAAGATA	732.453436571537	0.182335566643911
TGACGCGGACA	732.480297530578	0.268875116136296
ATTGGTCAACA	732.48264134295	0.316464367524855
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GGTGAGCAAAA	732.505625471442	0.187150464926894
GGTACCAGTCA	732.533441341049	0.316085824479001
ACGTCACCTCGG	732.556349561676	0.26455153317168
CTTTGACGCAC	732.567509657245	0.212234114958168

CTTGAATGAC	732.593336587202	0.280235193132281
TCCTGTAGTCA	732.629459663408	0.284950509488045
CGTTCAATGAC	732.706746527034	0.238310074653527
GTCATATAAGA	732.782007550205	0.314951731096969
CAGTGGGTGAC	732.811141348322	0.313986408230358
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GCTCCGACTCA	732.984263221141	0.228476528542321
GTGTCATGTGA	733.007188821427	0.266339346607843
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GCCCTGATGAC	733.140384446101	0.382163366195584
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CAGACTGTGAC	733.182120012492	0.253510586643359
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AGTCAGACTTC	733.22400555048	0.313962764139394
AATAGTCAAAC	733.227284933946	0.234454421606991
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TCTACCAGTCA	734.172314171248	0.237964196540652
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CGAGTCAGGTC	734.324786525308	0.215317764449748
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CAACGTAGTCA	734.356261779979	0.256040707192857
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CACAAGTCATC	735.879078482968	0.182442041244605
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CAGTCAGAAGA	736.0753456148	0.192477596966252
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GACTCACTAAC	738.445514595044	0.296574755901868
AGTCACGACCC	738.481706265411	0.238876997264459
AAATAATGACA	738.52206120988	0.207902184413964
GCTTTGACTGA	738.557055792781	0.182821047247987
GTGACTACCCA	738.588570537639	0.131773335127303
TATTGTACTCA	738.649738388534	0.176438926512167
AGATATGACCA	738.685991555234	0.316638336977829
TCAATATGTCA	738.739019787537	0.32924846873656
ATACTGTGACA	738.762355002924	0.215527558645721
GTCATTGTAAC	738.775880709531	0.321716867157058
ACGTCATGCTG	738.804911985013	0.183528516118643
GCATAAATGAC	738.81067703623	0.301089979320695
TATTTACGTCA	738.883500682591	0.289388599864143
CTTAAAATGAC	738.88540203056	0.155044856605528
AAAGAGATGAC	738.90112454783	0.228487855291028
ATTCTTCGTCA	738.93583181104	0.380306970803343
ATGACCATATG	739.033516052813	0.274861150498342

ATGAATGTGAC	739.04866584452	0.20359381079862
GTGCGTCAAAC	739.054530379234	0.159170691093742
ACAGGGAGTCA	739.074640601132	0.135605905132643
GGTGCGATGAC	739.07538320021	0.251320270483195
CACCGAATGAC	739.103215498357	0.26542627646034
ATTGAAATGAC	739.15510745391	0.321195364618344
TGACTCGGCCA	739.19209215988	0.203883062975709
AAGTCAGAGCC	739.210728974867	0.244349225838515
AGCGTGAATCA	739.234395075147	0.211782375324007
CGAGCCAGTCA	739.331827022543	0.282944019239597
AGTCATGGGTG	739.358905006322	0.15310037890151
AAGATATGTCA	739.38364417982	0.205768681886484
GATGACCTGGC	739.38411430154	0.241544072950272
ACTCCTATGAC	739.395209070893	0.218639909664197
ACAAACATGAC	739.426721040367	0.528783252787981
AAGAGCGTCAT	739.442239400602	0.22631201334862
GATTAGTCGCA	739.493833485018	0.235766045006574
ATCTGTGAGAC	739.499846233488	0.162962754628232
GTCATTCAGAC	739.544306931921	0.390194869089392
GTCATCTGCCA	739.610065027864	0.277864179872557
ATTGTGGTGAC	739.616759239024	0.199972244000233
CTTCGCAGTCA	739.630735174826	0.277271036892781
GATTTCCGTC	739.645137148936	0.269633962487584
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GCCAGTGTGAC	739.675782649137	0.203235986579776
GTCATTCGAC	739.685527482922	0.218331146602764
CGGGCAATGAC	739.756490041665	0.207297924327593
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AACAAGATGAC	739.823173806136	0.350208920174688
GGCGATATGAC	739.85094658061	0.195255170761082
ACTCATATGAG	739.85744211204	0.290184457018677
AGTCACTACGA	739.87759071204	0.310348573600491
ACGGTACTCAT	739.883559849704	0.20681113418516
ATTGCTAATAC	739.974550400664	0.243137815260273
CATGCAATGAC	739.990130411117	0.347357481557953
AGGATTGGTCA	740.011174162301	0.175130280133539
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CGTCATTCCGA	740.035264336951	0.233565195164742
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CACTTTGACTC	740.13949668648	0.234518776611238
CTGACTGTGTC	740.154693014367	0.237929470062293
GTCACCATGTA	740.166457734298	0.260306540299085
GATGTGATGAC	740.23170404979	0.239024300581646
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GTCATGCAACA	740.362782693247	0.046887990405296
GTCATCCGGCA	740.365679141157	0.215299310142337
CGGGTGACCCA	740.383700327139	0.229955629040216
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AAAAGTGGTCA	740.442628880436	0.339365407610282
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ATCCCGAGTCA	740.524809241	0.267773457738685
GTTCTAAGTCA	740.599794712912	0.289864107352028
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GTCATTTACACA	740.870324446263	0.139644125683181
GACCAATGACA	740.889913711427	0.291687115808794
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AGCATATGACG	741.183651532646	0.2440167153479
GCTAATATGAC	741.24134483954	0.191769430143368
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CATTTGGTGTGAC	741.540807423723	0.410559995908102
GTCACCCCTGA	741.585680195202	0.307407296895871
CGTCATGTCAC	741.647403769397	0.251726131853157
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CTTCCGGTGTGAC	741.7547396143	0.295671499981589
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ATGACCTAATA	742.109809740945	0.274486142009175
ATACTGAATCA	742.158528891874	0.246048488995516
AAAAGGGTGAC	742.184540152684	0.138317664115267
GTCATTGTAAA	742.237450649622	0.327114730596037
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GTCATTAGGAC	742.312752405995	0.441850528257902
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TGACTCGCGAA	742.38253827518	0.235231960965945
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GTCATCCCCTA	742.439329284245	0.187754217049752
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CAGAAGGTGAC	742.519565912172	0.270526957531337
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AAATGCAGTCA	742.63237422562	0.293539285601393
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GTGACGCGGCA	742.825236093325	0.244483217284739
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GTCATTCGAAC	743.012039160364	0.22105864969655
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TAACGGTGACA	743.120828142276	0.199677039219595
ATTGGTGTGAC	743.16023444632	0.274212805949657
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CCCGCAGTCA	743.249969819106	0.296546137297507
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GTCACACCAGA	743.268122081019	0.175780251591234
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GCCCATGACAC	743.415161732911	0.190910522121614
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GTCATATCCAA	743.492793705885	0.226154869031577
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GTCAGTAGTCA	744.211139373213	0.267108050326627
GCTGACATGAC	744.225964273188	0.404150458669552
AGTTGCATCAT	744.249864711826	0.273448621036294
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ACCAAAATGAC	744.267171725224	0.220970886887274
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GACTAATTCGA	745.604930963478	0.183581046565749
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CAGCCAATGAC	746.428288755949	0.261830471281748
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CCAATAATGAC	746.496131097831	0.322916323331586
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GTCATTTACAGA	747.289902165558	0.338545673869903
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TGTCACAGTAA	747.494485082426	0.259680435840382
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GTCACCGTCGA	747.80531367564	0.300072005322602
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CATATCGTCAC	747.849918895999	0.30421240065186
AGGATTTGTCA	747.862745497136	0.19287672751103
TCATGGTGTCA	747.888165388278	0.471072645843922
ATGACAGCTCG	747.926280643837	0.221891580710263
CGACTAATTTA	747.959767099502	0.222861379271585
CTTTAGATGAC	747.969704394519	0.223060211245072
AAGAGTGTGAC	748.027044814206	0.217592630886277
ACTTTAAGTCA	748.041978420989	0.314502983202422
CGTGATGTGAC	748.067994936884	0.351589494119277
ATCACCAGTCA	748.081122593305	0.225306887616743
GCGGTGAATCA	748.185817170838	0.245655159474269
CGTGCACGTC	748.230560626946	0.309391164499096
TCCTGGTGACA	748.254254835166	0.302547495870243
CGTCATTTCTA	748.356382116101	0.182052410684942
TAACGAATCA	748.643726835273	0.274250178301126
TATCGCAGTCA	748.653219074741	0.2339629099872
AACATTGCTCA	748.653598087416	0.33122452681991

AATCGTGACAC	748.659346212686	0.21567831865834
CTGACTACTCA	748.668609472677	0.242970996382143
ACGTCATGCAG	748.681981633936	0.227114058230683
AGTCACGGCAG	748.797305292543	0.189845878773052
GAGGATGACCA	748.80253565641	0.269985556419915
CCATAGTGTC	748.813641013766	0.310844468582933
ATGAGTGAATG	748.8156905989	0.266755715361258
ATCGTACTCA	748.820642667037	0.270226045970631
AGTCTACTCAT	748.86094484848	0.16913299913379
AAACGGTGACA	748.868620329882	0.181718319687601
GCCTAGAGTCA	748.936264960227	0.181866440292068
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ATCTTTGACTC	749.0644384561	0.271412356118124
CACATGACCCA	749.07397286872	0.246590832522779
GACTACATGAC	749.127612253606	0.296383861897655
AGGCGGATGAC	749.131046917013	0.276715073562229
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ATGACATCGAC	749.167278387202	0.283262511757318
ATGACATGATG	749.189364254309	0.276113103030955
CGAGTGACCCA	749.203359197081	0.240742904936148
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GTCATTGTATA	749.217139070795	0.163825574613564
AGTCAGAAGCA	749.270176614513	0.246728056803017
ATGAGTCCGGC	749.282806801256	0.239041541880785
ATGAGCAACCA	749.311541107454	0.180163952423731
GTCATCACCAA	749.369197290792	0.315720643477414
GAGATTTGTCA	749.372442111547	0.316601311511145
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GAACGTGTGAC	749.391960403048	0.227534438463217
ATTAACAGTCA	749.398558131992	0.210720944190969
GAGCTTACTCA	749.400767515703	0.21263468050271
AGAGGTGTGAC	749.400960079882	0.236119268069001
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AAGAATTAGTC	749.438054882214	0.279958458990816
ACTCGAATGAC	749.446828888839	0.287679728032194
CCTTATATGAC	749.450967674263	0.220022702359116
GCCCCGATGAC	749.505647956664	0.317307080691224
AGCAAGATGAC	749.513733824347	0.295027666184874
CATCCTGACTC	749.519825058693	0.188613337550006
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AAGTTATGACC	749.562998897045	0.320327643524049
GTCTAGAGTCA	749.567130839146	0.24446873773342
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CAGCATGACGC	749.659945652594	0.226385128425491
ACAACCTGTCA	749.684586149328	0.219928710881368
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CGTCATGAATC	750.224089925412	0.289654712181345
GATTGAGTAAC	750.227002995123	0.210134881594993
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AGTCACTTGCA	750.316049114352	0.284689686658483
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GACCCAATGAC	750.85094407482	0.317398321195397
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TAGCAGAGTCA	751.429715466805	0.204895141803033
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GTCACCACTCA	751.488497670815	0.232072114076998
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GAGTCAGGATA	752.879902202374	0.203278400618664
GCGTCACCATA	752.887281087908	0.262770292941682
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GTCAGACTGAC	753.523150112215	0.324566268274856
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GTCACGTAATA	757.604014214452	0.239298713321704
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GTGACATGGCA	757.667618426813	0.183369853644155
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GTCATTTCAAA	757.810107993547	0.301816933354341
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GTCATTCTCGA	757.844995639938	0.246561147454621
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GTCATTGATTA	757.931308800988	0.220191206527231
ATGACGTGAAG	757.957677410142	0.198534212676962
ATGACATTATG	757.963421099274	0.207156960081312
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AAAACGACTCA	758.23369221371	0.323412337667031
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ATTGTGTGACG	758.253386242528	0.235513040096779
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ATGACGCGCCC	758.338285093476	0.232195627548021
GTCATTATACA	758.379552234707	0.250072539192522
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GTCACCCATTA	760.191121094354	0.175013787859131
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ACCATTTGTCA	765.954006962557	0.226631138042104
GCACTTCGTC	765.956439243187	0.237454081652802
CACTTGGTGAC	766.001047762255	0.305600110868278
ACCTATGTGAC	766.011845686321	0.326422654987802
AACAGTGAGTC	766.040445907402	0.0895826533722312

ATGACGGACCG	766.104658048743	0.251275395173083
TATGACAGGCA	766.160602448658	0.116364509548226
AATGAGTAGTA	766.191737289459	0.212512335307971
ACCGAATGACG	766.197398760481	0.257188921068397
AATGATGCAAT	766.20509383582	0.136674242174131
CGTCACCGGTC	766.26015976566	0.313988603117581
CCTGGTAGTCA	766.266704276099	0.225288254590247
CGTCACGATGA	766.272758497902	0.348964419510308
CGCATCCGTC	766.274698591113	0.279112688718003
TAATTGAATCA	766.358384283004	0.385776643487807
CCACGGAGTCA	766.374531724302	0.255477590707513
ATGACAGTCAG	766.379743217552	0.247204100905655
ACCCTGACACA	766.415526414171	0.221296119299698
AAGCTGCGTCA	766.421205836529	0.377962263915374
AAACACATCAT	766.423854177477	0.244274177787119
AGACTCACGAT	766.448715441905	0.306493920272348
CGGAAATGACA	766.475525210893	0.252647116407258
TGACGATTA	766.489103077819	0.343819518091827
CAGTCAGCGTA	766.50399228053	0.201452106188093
GTCACATCTGA	766.512632124908	0.225610210400924
GATGACGGCAC	766.514046108488	0.262473114752473
AAAGTAATGAC	766.593436687776	0.233604108839796
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ACTCATAATGA	766.6182555647	0.244732365225927
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ACGAGACTCAT	766.662633730694	0.21555867636465
ATCGCGACTCA	766.679512525882	0.285755169011273
TCCCTGTGTCA	766.779677298518	0.26330579674262
CGTCATTAAGA	766.783875074436	0.259658361093908
AAGGTATGACC	766.794080338221	0.130594234626305
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ACAAAGTGTCA	766.80653366756	0.198239383383137
ATGGATGACCA	766.823044953098	0.289943484326298
CGAACGCGTCA	766.844691881343	0.31279982097474
GCGATTACTAA	766.933533322492	0.292779014373423
TGACATGTCCA	766.938110933069	0.358694861316287
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AAATTAATGAC	766.947485658622	0.266010076404233
ATGAGTTGTCC	766.959692822584	0.219208821900667
ATGACCTCATC	766.968780745671	0.194958007596443
ACAGTCGTCAT	766.979407699674	0.201559593940315
ATGACATCGAA	766.990457468312	0.2260506187418
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CTATGATGCAA	767.107817213922	0.150148027931147
ACTCATATTTA	767.12575199752	0.189789140528919
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GAGTCTGTAC	767.195939001696	0.298895031632243
TGCAAATGACA	767.19941377665	0.286747391735656
CGTCCGACTCA	767.219468570584	0.173838938791914
CGTCACGATTA	767.265920290816	0.344929628799453

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GACGTGTGACA	767.303163771139	0.231590348433234
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ACCAAGTACC	767.519975000641	0.24301174476989
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TGACACAGCCA	768.721450135033	0.304318403178792
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CACGTCACGGA	768.998468228868	0.318995463271454
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TGTGTCAATAA	774.150748902703	0.210073124620955
GCTTGTACTCA	774.188204820776	0.178588469499782
ACGCGTGAGTC	774.208885748798	0.300005782665826
TATGCCAGTCA	774.237185467803	0.237498037032859
ATTGCTCAGAA	774.249791199182	0.256237775170343
AACCTGTCACC	774.288655066273	0.203457045247765
GTCATTGTGAA	774.325328922258	0.298609896940889
ATAGCGGTGAC	774.327674998755	0.338968486956762
ATAAGTGACGC	774.338569802846	0.24087808046843
CTGTCATGTCA	774.345311938106	0.244857279291604
GTCATCAACCA	774.353316210097	0.246852917105037
AGTGTCACGAC	774.486002967457	0.322816196214667
TACGCATGACA	774.596749146199	0.157265857186205
GTCATTGATCA	774.607232271427	0.123715129650814
TACTTTAGTCA	774.617901538348	0.272955030526599
GATAACGTCAC	774.652451075977	0.0897463878961589
ATGACACCCAG	774.666097234874	0.223797516350829
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CCGACAATGAC	774.675907237708	0.298428994715757
ATGACGTGAG	774.677062364291	0.242518376151587
GAGTCAGGAAC	774.678303983167	0.242766426235971
ATGACAATGCG	774.690588344805	0.258302387179786
AACATCTGTCA	774.717876513017	0.396984185070139
AATAATGTGAC	774.726444720884	0.299893871155126
TGACTGTGGAA	774.795184018741	0.265735011271739
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ACTCTGTGATG	774.820307180359	0.250880109103497
GACCCGGTGAC	774.847379781739	0.262450209030464
GAATAATGACA	774.867398941686	0.245990364965792
CGGCATGACAC	774.911988990681	0.32114395558996
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TGACATATCAA	774.935260387148	0.260938126697637
ATAGACGTCAT	774.949666809366	0.32405650437834
ACTTGTCACCG	774.972516634654	0.0935001477536205
AGCGACGTCAT	774.989653874804	0.244213492020454
CCTGTGATGAC	775.054989027833	0.203719307934716
GCGTCACAAAA	775.126884502678	0.244041875963769
CTGATTGTGAC	775.137306830192	0.201494075297591
ATGACACCCCG	775.194819283361	0.182783359137391
ACAGACGTCAT	775.196818784069	0.184778685431143
GTCACATTGTA	775.198516262679	0.237267755179252
GGTTGAATGAC	775.223679035349	0.183121221203687
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GTCCTGACACA	775.366655786445	0.14505380978864
CACTTGACTGA	775.379292329297	0.288102687976017
GAGCTCAGTCA	775.412249772222	0.181793842017928
ACACGTGACAC	775.414785124635	0.142766663087322
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AGATGTGACGC	775.42720086884	0.197460538342387
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GTCATTTAAC	775.505413860625	0.165495897841292
CGTCATCCAG	775.536192123448	0.152668899917666

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ACTTGGTGACA	775.642236638538	0.252939143850215
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ATCCAATGACG	776.233783664568	0.158854552049208
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GATGCGACTCA	776.259101811837	0.32819650496801
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ATCCCACGTCA	776.498430303902	0.33160300840866
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GCGGACTCACA	777.148312208728	0.271889138416046
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ACTCATAAGTG	778.016500245868	0.295905743753144
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TGAGACTCACA	778.281972812964	0.249958121875819
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TGGTCATCAAA	783.480282747532	0.183755366992186
GATTACGTGAC	783.508514512407	0.247647869844652
AACGGGTCATC	783.537470442546	0.258540024859856
ATGCACGTGAC	783.591995975845	0.223858877364245
CAGTCAGATCA	783.623148317451	0.253170055493308
AGCCACAGTCA	783.624534000059	0.267217218469033
GGTGTGACCAC	783.632050711634	0.259607895907746
ATGAGTTGCC	783.639350235837	0.18420304997076
AGCAGATGACG	783.641981650816	0.137290969427544
AAATTATGAGT	783.694753297619	0.172026632541886
GAGCCGATGAC	783.705848187734	0.304749490250978
CAAGAAATGAC	783.721434678576	0.331832269586212
TGAAGTAGTCA	783.723464070879	0.253731040727189
GACTCACTTCA	783.72648904414	0.274984772497195
CGAACTTGTC	783.769161630957	0.232857375561757
ATTTGGAGTCA	783.788339414994	0.254133207940524
ATGAATAATCC	783.822856869735	0.1641531408432
AGGAAATGACG	783.828547051116	0.232122290018898
TAGATGAGCCA	783.838819126404	0.219381429192974
ATGACAGAGGC	783.853971071931	0.192193986150262
CCGTCTATGAC	783.866338508759	0.27835654567819
CAATCAGTGAC	783.904963033083	0.336420473799715
CCTCCGACTCA	783.91850516307	0.223391344083669
GATTGACTGAA	783.920996246262	0.178911885300743
CATTTGTGACA	783.934889010322	0.232231505319709
TGACACAGGCA	783.951237493501	0.217467163340898
ATCACTGTGAC	783.973483858838	0.181594367634582
TGACTCGTCA	783.984518924806	0.266711696779588
ACTCATCGGTG	784.057317134338	0.244506121712184
TAGCGGAGTCA	784.100503714271	0.271086412785637
CACCCTAGTCA	784.112279828058	0.17969637088427
AGTCACTAGCC	784.112529975244	0.168739260446702
TGACACGGTCA	784.12531496489	0.227092965218311
TATGCGACTCA	784.145184806111	0.16252080799409
ATCCGGTGACA	784.146834434183	0.228186976046129
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AAGCCTGTGAC	784.193702357492	0.23325315809127
ATCTTGGTCAC	784.224266387934	0.154478016529064
ATATTTGGTCA	784.234803080261	0.311758586386669
ATCGGTGTCAC	784.259229184195	0.230659722590025
CCGTTTCGTCA	784.268586503809	0.260007913946024
GACTAATTTAC	784.278116218073	0.202278849240009
ATGACTTGACC	784.29245723239	0.246436707904147
CTGACGCAGCC	784.304056027473	0.237251499137072
GGACTTCGTCA	784.315091856307	0.432022022281158
GTATTGTACA	784.347205805855	0.233952883017763

GTCATGATGCA	784.355271166502	0.252010493739393
GTCACCCTTTA	784.366593180895	0.217807868156983
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AGTGTCACGTA	784.479060270668	0.289421494511107
GTGACAACTCA	784.494286042301	0.141892761869205
TCGTGGTCACA	784.502726614769	0.232030945697063
ATACCGCGTCA	784.509814627815	0.2251731566722
ACTCATACAAT	784.512089888258	0.224059773518182
TGACGTAGGCA	784.600816051074	0.144051571182139
AGACTCACGAG	784.601162848616	0.127735738172025
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AACTAGATGAC	784.733324218693	0.146725114004399
AGTCACTAGGG	784.787097025932	0.161751179568864
ATATGGTACC	784.792877923725	0.242852994169108
ACCTAAATGAC	784.797289205731	0.192310756572958
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ATGACGTTGGC	784.855135254541	0.142101040059186
TAATATCGTCA	784.877794941568	0.255827768181914
AACGGTGTAC	784.887565636619	0.271142180715395
GTCACACTACA	784.958544253848	0.230911707155309
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CACTTGGTCAC	785.041692385061	0.186716743264638
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CCTAAGTGTC	785.042442191713	0.283083204514215
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GTCATGTATTA	785.130734608695	0.321808259611122
AGCTTCTGACT	785.149522124149	0.313005736775238
GAAACTGACTC	785.176300988404	0.199719792983888
GTGACACGCCA	785.176439151585	0.210138648409718
CAGAAGTGTC	785.195356742161	0.170391124717978
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GAACAGATGAC	785.204645157399	0.22551323356005
CAGTACATGAC	785.211971165064	0.302445105274012
AGGATAAGTCA	785.253629416772	0.205321994536963
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GTCACCGAAGA	785.360820196417	0.152769193482351
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GTCACCGACTA	785.399693451847	0.244304007555026
TGACGCGTTAA	785.442896367411	0.253877749641713
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ATGACGATCAT	785.566031314219	0.227569961591353
AGTAGCAGTCA	785.574960983301	0.165361599089655
ACTCTGACGAA	785.600487377248	0.236547892103594
CCTTTGATGAC	785.636416611202	0.249847512481979
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GTCACGGTCAC	785.78773349916	0.271196038126268
ACTCATACAGT	785.804860839252	0.231138306255367
ATCGTAATGAC	785.847964542294	0.290888225862167
CGAGTCAGGGA	785.928047917603	0.179856941563228
CTCTTGACTGA	785.961566441444	0.181957701639469
GGCAAGATGAC	785.965290120817	0.189638477721572
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GCGCGTATGAC	786.06936171662	0.257701772101904
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CTAGTGACCCA	786.261051760693	0.161629418731275
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AAAGTGAATCA	786.27813528171	0.284353646635542
TCGGCGAGTCA	786.296191711985	0.264889189180146
GTCACCCTATA	786.341774974582	0.200160429602152
AGAATGAGCCA	786.37862469097	0.249564135254196
GGCCCGAGTCA	786.393723510365	0.296939956381341
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ATGACATCGCA	786.50369160746	0.186620005714127
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GCCTCTATGAC	786.679683030889	0.159548859323575
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ACTCATAGTAA	787.141921433558	0.24466856837366
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TGACACTGACA	787.26177794575	0.243840624070777
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GAGGTGACCCA	787.335940284428	0.142667484166554
ATGACATTAAC	787.366773291343	0.1697555957162
ATGACAAGGAC	787.38621895668	0.233596178279146
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GGCGTGTCACC	792.204765179054	0.159816356276241
GCGGTGATGAC	792.237399118665	0.243437591321404
CATTTAATGAC	792.375113548924	0.131517971618051
CGTCATCTCAA	792.377864042937	0.195565600839231
GTCATCCCAC	792.380421684498	0.226139117115047
ACTCATCCGTG	792.403201857227	0.1959689078077
CGTCATATGCC	792.433145574789	0.187745915410274
CACTTGATGAC	792.485069620439	0.311415459453627
ATTCAAATGAC	792.53590451615	0.199685212454416
CTGTCGGTGAC	792.554723796172	0.326163025384586
AGGTTTGACTC	792.558796983421	0.249238385583273
AGTCAGAGTTA	792.592970459946	0.219337369512987
ACTCTGAGTCG	792.596929947271	0.0629685007072147
ACGGTGTGACG	792.66275891158	0.215934909012837
ATTGCGTAACC	792.682482845142	0.202143607500712
CTGTCGCGTCA	792.688579617334	0.296566887492909
CGTCATTCCGC	792.699461957467	0.191241416350133
CGTCATTGATC	792.752430796734	0.230094397728321
CTTGGTGACGC	792.779531215479	0.190786521991629
AGGTAAGTCAC	792.791676782362	0.251934523852029
GGTGACGATAA	792.799203172973	0.215138417505696
TCATACTATGA	792.816536743686	0.178840659637372
GGCAAAATGAC	792.823699160277	0.151724678418224
AAAAGTGTGAC	792.857905136445	0.22482596701954
AATGAGTGAAT	792.910276633641	0.211872527426588
GGTGACACGCA	792.930640922333	0.165009197311218
ACGTCACAACG	792.947363994921	0.214359079773501
ACTCATACATC	792.992675439347	0.215932641601345
ATGAATAATCG	793.014791862497	0.175834819517284
GTCATGCTTCA	793.017355678305	0.232212960339063
AGCTTGACTAA	793.023681239117	0.338392215373472
GAGATGGGTCA	793.069297458211	0.219796014046844
ATGACCCAGCC	793.081077774873	0.124608638076075
ACCCAGTCAGA	793.133325025038	0.292126461062394
GCCATGACATA	793.150176379438	0.244335802936871
CAAGGTGACAC	793.167118282757	0.225758684734765
CGTCATTGGGA	793.204889141689	0.221261002310896
AGGTAATGAC	793.208721602324	0.222386104063428
GACTCACTTCC	793.219344637021	0.166825644064586
GGGTGGATGAC	793.225850584178	0.108515711107756
GTCACATTTTA	793.274441238545	0.236064299071999
ACGTCACCTCT	793.314054431107	0.195633382965425
GATGACAGGGC	793.316221698737	0.165749270565564
GTCACACAAA	793.34788247068	0.216957595664754
GACCATGTGAC	793.411040335891	0.319042890905161
CGGTATTAGTC	793.485020057677	0.212212649562888

GTCACCGATCA	793.505179991835	0.228493617311043
GTCACAGGTGA	793.516867734681	0.224704053728698
GTACAAATGAC	793.575924155165	0.258275777080395
ATGACGCCGCC	793.639461362834	0.215563724615741
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CGATGTGACGC	793.656802900876	0.190728816700206
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CGTCATTAGAA	793.710834809838	0.163953832693334
ACCGCGATGAC	793.713033787365	0.14087012563317
ATGACTTGAAT	793.727434347238	0.212789957949852
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CAACGCAGTCA	793.739957179035	0.321962765176063
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ATGACGAGCAC	793.816271072027	0.137569778387525
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GAGTCCAGTCA	794.026552082059	0.133423488189834
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GCTTTTCGTC	794.171514947991	0.184702482115275
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CGTCATGTGTC	794.174380842616	0.178110988870906
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ATAAGATTCAT	794.202869875676	0.219457530943626
CAGTCAGCAGA	794.213555905043	0.266954706318544
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AAGATGGTGA	794.275665587389	0.139411521781103
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GACTCACTCCA	794.33727223912	0.16515596965182
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GAAACGTGTCA	794.635987122521	0.16806309529168
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GCCTTACGTCA	794.717186235805	0.161649918268439
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GTCACAACGAA	794.731777733071	0.190220090751941
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ACTCATCATGA	794.757103779287	0.143601165750297
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CTGCTTATGAC	794.781895781391	0.159714670974071
GTC AACGTCA	794.798330293544	0.186639962447283
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CACGTCAGAAC	794.902439797475	0.331952485309062
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TCTCCCAGTCA	794.960336509165	0.216756094188145
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GTCATAGGGGA	795.181046157895	0.234902989688776
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GTCATCTTAAC	795.228478870847	0.332286331554088
ATAATGGCTCA	795.2532142271	0.23932773699689
CTCAAATGACA	795.281005174999	0.37138918319701
AACTTATGAGT	795.30376235646	0.215340062458741
ACTGACTGTGA	795.328265208849	0.212466641872281
ATGAGTAGGCA	795.331031481799	0.179766758866491
GAGTCAAAGCC	795.331259941151	0.254388137997757
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GTCATAAGGAA	795.336740760015	0.287667281709083
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ATTTCCGGTAC	796.473166863881	0.29672439573466
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AGGGTATGACC	796.686146752292	0.236209914212982
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GTCATCCAAA	800.269630537737	0.218659390092142
AACCATGAGTC	800.298494901239	0.278362770533887
AATCGCAGTCA	800.320929482396	0.22834446218607
AAAATTACTCT	800.324648193673	0.278160532930701
AGATTTGACTC	800.329961243395	0.192398999520051
ACGTCACCTGCG	800.34671673415	0.208307444897503
CATCGAGTGAC	800.377766280076	0.152260568323024
AACATGACACC	800.386719206354	0.246708154133468
CCATTAAGTCA	800.437056372108	0.263147017641745
GGACTAATGAC	800.450019755789	0.147232821026584
AGCGTCACTAT	800.450039543137	0.204180274283059
ACTGTACGTCA	800.479079864936	0.280804911697421
ATAGTGTGAGA	800.481508067152	0.215519524353633
CGAACTGACTC	800.484280152649	0.280768127661009
GCGTGGATGAC	800.573705110339	0.300844776657301
GCGAGTGTGAC	800.588276914304	0.235058397009518
GTCACAATACA	800.63845794727	0.232483067784946
ATGACAGGATG	800.66680421233	0.208723943759117
GACGTGTGAGA	800.690527670604	0.254536752072758
GATTCCAGTCA	800.692133251755	0.183002955055365
CTGACGGATTC	800.693045856594	0.239809546602384
AGGGGATGACG	800.74234628923	0.192696074765033
GAGAAATGACA	800.755934556941	0.159668337664025
CGACTCACGAG	800.762998656717	0.224580084791898
GTCACCTCTTA	800.774166184963	0.270486365978591
GCTCTACGTCA	800.785580243888	0.240736339903664
AAGGCGAGTCA	800.788248721011	0.272504265695983
GGGCTGACACA	800.791693932013	0.229390169878599
CTATTGGTGAC	800.85752276229	0.221651614120892
ATCCCTGTCAT	800.907758620538	0.203060970699773
CTGTTTATGAC	800.913871881552	0.267140023288779
CCTGATGACCA	800.921184655787	0.202534770759816
CGATGACCGAG	801.00427171667	0.264298633246568
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GAGTCAATTGC	801.036132936204	0.121706347948913
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ATCACGTGTCA	801.096731207306	0.213577097985559
GACTGGTGACA	801.101012997929	0.117517201611707
TATACGTAATA	801.104061723662	0.152300847024814

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ATGTGTACTCA	801.122210249979	0.231017176607144
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CGTCATTTTCGC	801.16066619418	0.27906742941505
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GTCACCGCACA	802.243248213904	0.20387873766595
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GACTTAGTGAC	803.142469717683	0.200943221175023
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CCAATTAGTCG	803.623452778777	0.154227069239423
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GCCTGTAGTCA	808.130554186188	0.237525650955731
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ACAATGAGTAT	808.142783294489	0.272192194429433
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AGTCAGAGCTC	808.331467334294	0.135748517285348
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CAGTCACGACG	808.383383425382	0.293478630955322
ACTCACATGAC	808.391969933133	0.214551477424802
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CCTGTGGTGAC	808.458543053462	0.195881762997494
CACTGAGTAAC	808.45916040992	0.120363066368472
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AGAGTAATATC	808.524240151011	0.13888683866522
ACTCTTGGTCA	808.638719595937	0.118990133977057
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GTCATTGGAAA	808.740031105962	0.204083340489901
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ATGATGCAACA	808.831410346211	0.166989794679067
CGTCATTATAC	808.834001234571	0.284060015727246
ATGACTTGAAC	808.860925374359	0.197655900107752
AAAAGATGAGT	808.865782159937	0.176444949458237
ACATCGTCATG	808.867602152616	0.188650438609507
AGATTAAGTCA	808.869517038162	0.192321303710267
GAGTCAAAAGC	808.944312338351	0.194743109403345
GTCATCCAGGA	808.954907494391	0.27953181729828
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GTCACCCGACA	809.041332054107	0.269995238167136
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ACGTGGTGACA	815.076740670356	0.164572674734793
GCTAAAATGAC	815.078870456893	0.147789320583673
AGATTGGTGAC	815.106440896235	0.198643588639112
GGTGATGTGAC	815.114842948504	0.188214047110618
GACTCACGATA	815.118973702971	0.185872225046131
ATCGGTGACGA	815.121228133117	0.204588089373147
AGTCAGAGTAG	815.154297330938	0.143746679354707
GCGCATATGAC	815.210475507388	0.104695726051418
ATAGTGGTGAC	815.21320168497	0.253350593909102
ATGACCACGTA	815.268705120811	0.215905583038454
AACTTGTCACT	815.315602593138	0.15075825618393
TGATCATGACA	815.325740098487	0.197003056819187
GACTTGACTGA	815.379259104453	0.17442384717995
GTGGACTCACA	815.436330824399	0.122325222471331
CAGGTGTGACG	815.476332196798	0.202603172720427
ACAAGTAGTCA	815.509635398103	0.161845245117145
AGAGTCAGGCC	815.520584976079	0.191592144178371
GACTCAGTGAC	815.557719596275	0.26697492351674
CGCCATAGTCA	815.560158318405	0.193874907840006
GTCACCGTAAA	815.587121846041	0.234717991938804
GACCTGTCAAC	815.594334760483	0.205902067058817
GTCACCCATCA	815.600650391966	0.222414193905385
GGATTATGAC	815.605921657821	0.26993586015659
CCCTCGATGAC	815.625323339322	0.257650149295039

GCTATATGTCA	815.722734042189	0.292462336513103
ATTAGTCGCAA	815.727905806764	0.23816816416166
AAAGTGACGAA	815.731406026533	0.195382555433706
AGTCACTGGG	815.73270401962	0.188129271746629
ATAGAAATGAC	815.737346140159	0.143639291092143
GTACGTGTGAC	815.757396753621	0.134305864672744
GTCATTGACAA	815.768171989144	0.334648320731533
GATCGTGTAC	815.779173642253	0.216272931623871
GTCATTGCGAA	815.792978802962	0.271184355859264
GACCGAGTCAA	815.812012706143	0.194095933551753
ATCGGTGACAA	815.827098548843	0.197719124420916
AACCGAGTCAG	815.829899971066	0.155948943228842
GCAACTGTGAC	815.879276021433	0.222783072287802
ACAGTGACCA	815.88918737137	0.162172479653335
GTGTCACGCTA	815.905936186449	0.187454329090298
ACGAATCGTCA	815.910438804491	0.223519079346516
GGTCATAGTAC	816.002050214931	0.169376388261082
GCATGACACCC	816.03221764843	0.130153146797898
AATTCTAGTCA	816.054565975783	0.198322279334878
ATGACAGCGAG	816.073056547653	0.187043554243558
CTGGTCATGAC	816.107121414382	0.224770056983017
GTCACATCAAA	816.110460105298	0.195493663773227
ATGACACTCCG	816.148717244959	0.189308151026358
GGTCATAATAA	816.173254354658	0.210371091930938
AAACGTAGTCA	816.207787490833	0.208762271190058
ATCGCGTACG	816.218132739972	0.237480012265662
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TATCCGCGTCA	816.235267697844	0.155903782628293
GTCACATTCTA	816.235752485462	0.133778951488261
CGTCACCGATA	816.245245909782	0.160274061228432
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ACTCATCAGTG	816.255899469131	0.169040547828491
CGATGACTTGA	816.266569393108	0.139586053041381
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CAGTCAGAAGC	816.403875232229	0.19165622560289
ACTATAATGAC	816.40491882085	0.276506340124376
CTCTATATGAC	816.422408636628	0.251712160180416
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ACAAGTCATGG	816.472860392797	0.137036234642284
ATGACATCGTC	816.49240039349	0.264666991770806
ACAGGTGACGC	816.498643622668	0.276256475804313
CAGACGTGTCA	816.502455523221	0.293983924970253
GACCTGTGTCA	816.503328760748	0.172544887268082
AGAGTGGTGAC	816.521115603424	0.21923569080326
AGACTGGTGAC	816.540957914284	0.155803351623623
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CGCTAATGACA	816.568002809046	0.196897305297139
CCCGTGACTAG	816.594585743588	0.283146483511804
ATGAATAATAA	816.596900739221	0.233472131592098
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CGGAGTGTGAC	816.673561259697	0.238388380484053
CGACTATGTCA	816.711868319285	0.174033596218533

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ATCCGAGTCAG	816.799546539237	0.24960476674326
GGGCTTACTCA	816.823780042658	0.191164661287753
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CATCCGCGTCA	817.036903329098	0.141353981957111
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GCTTCTAGTCA	817.126945832083	0.19468632466059
GACTCACTTAA	817.137400147073	0.215593414954123
GGGTTTACTCA	817.141157865037	0.196642346754237
CTAATGGTGAC	817.189877751649	0.124060669216724
AGTGCGACTCA	817.240695919402	0.368221490850922
GTCACCGCTAA	817.250292562729	0.264806877850375
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CACGGGTGACA	817.341309604198	0.140137063667807
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AAACTCTGACT	817.471020777081	0.23054023140318
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ATCACGACTCA	817.593524303462	0.284129710293937
GCAGTCACGCC	817.623150536204	0.237596998977539
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GTCACACCGTA	817.682071922762	0.271195967383469
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GTCACCAGCTA	817.840793593584	0.182092281583433
AAGTATGTCAC	817.857685698426	0.140842885775161
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GTCGTGACCCA	819.138412665559	0.273949502423916
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GACTAATTAGC	820.075386941034	0.185767487082476
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GAGTCTGACAC	820.224559142912	0.236416855382112
GAAGTGGTAC	820.240406687275	0.359300393978254
AGAGTGACGGA	820.320904311394	0.181320584612419
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CGATTCATGAC	820.338709743257	0.135509288259579
GTCATTTACCA	820.344437928674	0.235942886014246
GTCACACACCA	820.372344856443	0.237986064672032
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GACTCACGCGA	820.4858878682	0.135817392939933
CCAACATGACA	820.486185889932	0.210285190071204
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AGGCGAATGAC	820.574483150502	0.184952598493859
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GATAGTGACGC	821.857101555087	0.110175320534501
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TGACGAAACAA	821.952736717462	0.179808488247216
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CGCGGAGTCAG	822.057717009642	0.162305305318736
GGACGAATGAC	822.063102109146	0.159627127598313
CCCACGGTGAC	822.067939083358	0.137258470888593
AATGAGTATGT	822.068873199102	0.149363218727755
GACTAATAGAC	822.077976555581	0.26031002142896
GCGTCACCCCA	822.086620734629	0.1885763382657
GGAAATGACAA	822.098830646599	0.18446828341982
GGCAACGTAC	822.104902889487	0.227314307447564
TAGCCATGTCA	822.118356965221	0.192970592560746
TGACACTTCCA	822.143060817308	0.18157970791957
CGTAGACTCAG	822.148328116101	0.241901889572159
TGAGTCGCTAA	822.157388016282	0.242812838898528
ACTCATCTAT	822.187961471643	0.154470835263276
CATTTCCGTCA	822.241146179572	0.187649453838208
AAACGTGACGT	822.267934087206	0.223915763576415
AAATAGGTGAC	822.28791767124	0.222796930176861
CTAACAATGAC	822.29470849865	0.118053796785578
AGTATTGTGAC	822.308057457323	0.201148133464017
GACGATTACTC	822.308101134111	0.207737822649318
GTCATGCCTGA	822.318545089776	0.190945695566396
GGGGTGACCCA	822.339194746126	0.219409625648268

ACGTCATGCTA	822.367701471948	0.20208838381945
CAAGAGGTGAC	822.370616741306	0.212850794330244
GGTGACGCCAA	822.395741001644	0.206021083374674
GGCTAGATGAC	822.419773732649	0.146939207783158
GGTTAGTCTTA	822.441009632449	0.165583540775045
GACCTGCGTCA	822.445753691718	0.193108860791611
CCGATGTGACA	822.45237875129	0.224316184146919
ACCTGTCACAG	822.479993622648	0.259033192805835
TGACCAGTCAA	822.496616287197	0.176490125547732
GCGTCACAACA	822.536516794847	0.124172801203027
CTACTGGTGAC	822.566296396476	0.203016319627401
TGTATGTGACA	822.590245074423	0.21859637437747
AGCAAATGACA	822.603639322759	0.158865136028808
GCCGGGATGAC	822.622637582746	0.226008367139274
AGTGTGAGTAC	822.651217784671	0.178997539511477
TGTGACAGCAA	822.662203361365	0.193105256832417
AGAGTGACCCA	822.662469460958	0.164356876557319
GGGTCATAACA	822.705984672341	0.125955608750375
CACGGAGTGAC	822.708465785987	0.194631798390133
TGTCATTAATA	822.801006899749	0.15852249452496
GCGAAATGACA	822.854496114821	0.166846505408662
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CGGATTACGCA	822.907801310616	0.204058805028794
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CTCCTGCGTCA	822.932279311877	0.143470160376815
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GAGCAGATGAC	822.958140321379	0.124792262641968
ATGACAACGGC	822.987671020697	0.182614448425939
CGAGTGACAAA	822.997194722707	0.032579693905754
AAGGGTGTGAC	823.042006615928	0.178066768393927
ACTCATCATAG	823.07628092099	0.222145809557339
CATGGTAGTCA	823.086994333298	0.185870975058812
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GATTACTAAGA	823.104268067032	0.159407500386201
CATGACACTCA	823.113873402209	0.200135964521484
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GTCATGCTTGA	823.124934048129	0.203328983008505
GTATTATGTCA	823.140981019143	0.143949156916014
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CGTCATGCATA	823.153229056085	0.183853986791094
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GTCATGATACA	823.237543418907	0.182891349924883
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CAGCTAGTCAC	823.292792396403	0.140047963445075
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AAGGAGATGAC	823.380614611108	0.153493117433702
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GTCACCCCTTA	823.396742401738	0.22115203549839
AGGAGATGACA	823.40645943672	0.157748387825068
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GTCACCTTGAA	823.446420536418	0.227586863309032

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GCGTCACCAAC	823.512690430247	0.230837964375867
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GACTCACTACC	823.53688613361	0.184155177090943
ACCGGTGACAT	823.542172372365	0.127919070028378
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ATACTGGTGAC	823.92041491159	0.240723142386987
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GTCACATCGAA	823.994907851882	0.166970729054016
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GTCACACGGCA	824.004179272293	0.268478098056749
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CACATTGCTCA	824.02409506973	0.256191390192813
TGTCACCGACA	824.047637147043	0.203071976811534
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CTTAATCGTCA	824.097642326352	0.209989728810591
AAGATTAGTCT	824.131754473575	0.134707689895507
CGTCACCCTGA	824.151837173037	0.195491887479256
ACAGACTCACC	824.22197004253	0.19436222237272
ATTCCGCGTCA	824.265408906444	0.293374514104795
GTCACCCTCTA	824.267082325285	0.156477100355169
TAAATGGCTCA	824.323529301219	0.228256228788412
GATGACAGGAC	824.362864880065	0.19579177012157
CCCGAATGAC	824.370957573726	0.186393838481646
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CCAGTGACCAA	824.419269830903	0.225334586261388
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GTCACCTTATA	824.498461750918	0.149857437157037
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GCAGGTGTGAC	824.58617858265	0.145235602513456
GCACCGACTCA	824.614570265411	0.240514825504578
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ACTCATTGTCA	824.688029186489	0.173239742377024
AGAAATGTGAC	824.691578102582	0.187617332209009
ATTGGTCAACG	824.694939769437	0.195550985099117
AACTCCAGTCA	824.695804489989	0.220555369477545
CGTCATGTTTA	824.69803155495	0.198338528188126
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GTCACGTTCTA	824.977189055792	0.195006312749282
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AGAACGCGTCA	825.13581349617	0.169222346914971
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AAAATCGTGAC	825.170898110003	0.249911646897165
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AAGTATGATTC	825.261967895035	0.120067938188816
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ATGACAACGGA	825.408859135551	0.177872622889624
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GTCACCTAGAA	825.795147892171	0.241273352614076
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ATCCAGTCAGA	828.532810878359	0.155517376425713
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GCCAGTGACAC	828.551413729514	0.249875651755848
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ACATCTGACTG	828.630530584168	0.174863391195237
CGTCATTTCAA	828.681679536698	0.17331213450081
GGATGACCGAA	828.690835380223	0.19994794098502
GATGAGTAGGC	828.704559823982	0.172558087835132
GTCACTCAGAC	828.776175227019	0.191342208019495
CCCTTTGACTC	828.788236732502	0.188378141625641
GACTAATCTTA	828.827536064218	0.235782345025602
GCGTTGACACA	828.845133085038	0.219549480266717
ACTCATCAATG	828.861685131221	0.176221554006785
CATTTTCGTCA	828.863777799259	0.17261725839464
ATGAGTGAATA	828.869501281448	0.181813943368275
CCCATTTGTCA	828.869858555347	0.179065219669597
CGAACATGTCA	828.902828201284	0.18322243011842
CCCTTGTGTCA	828.929242171267	0.25844882096376
GATTACTCCTA	828.932742149624	0.134808432931664
ACGTCACTGCA	828.936805243088	0.218711753241415
CCCTAATGACG	828.973125753791	0.12176443705374
ATCTTAATGAC	828.975521016663	0.260662954336099
GCATGGAGTCA	828.979494494991	0.177439953289573
GAGCTGTGTCA	828.988838140742	0.199116801395274
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AGCGTGACACT	829.076407854076	0.147329445764101
CTGTTCTGTCA	829.082330609843	0.259334023551503

GCGATAAGTCA	829.085020765515	0.200260630635552
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CTTGCATGACA	829.170959585966	0.218700486198329
GTGACGTTAAC	829.207930060202	0.178690416055995
AGTCACGGAAC	829.248077269605	0.190549841342875
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GCAGTGACAAA	829.365210041816	0.186203298563761
AGGCGGAGTCA	829.369776644506	0.170918463053503
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TCGACGCGTCA	829.385655212739	0.0807863014333902
ATCCATGACGC	829.391156661546	0.113544537481235
GGTATAATGAC	829.391445577316	0.249982707214312
CAGCGAATGAC	829.392260901672	0.11408981624987
ATGACGGACTA	829.430499150109	0.176234865060691
GTCAAACGTCA	829.431879025251	0.245575456847648
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ATGACAGTGGC	829.484545158804	0.172468388206197
ATGAGTATGCC	829.551129957649	0.179156853611545
AGAGAGAGTCA	829.58281004697	0.169380674511343
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CTGCTAATGAC	829.590112058354	0.254087455595797
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GTCACATTCGA	829.695123323769	0.106862363896338
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ACTCATACGAT	829.780661586729	0.24017522787147
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CGTCACACCTA	830.289082361534	0.14385175941118
CTGACTCCGTC	830.300392624921	0.178346523691634
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AGGATGAGCCA	830.345788658829	0.253857692916591
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GTCATATGCGA	830.457711729114	0.270063568429958
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AAAAGGTGACA	830.876907524555	0.195121578274223
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GTCATAAGGTA	831.01627129176	0.23273357116591
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GTCATTAACCA	831.891250412902	0.105169894076642
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GTCACCTATCA	832.321022365296	0.176787398223142
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GTCACCGGAAA	833.721526369413	0.27777778150092
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GACTCATGGCC	835.461980549116	0.24765876540735
GCAATTACGCA	835.470466894462	0.209210257887336
GGAGGTGACAC	835.473091852473	0.161457917178821
TGACCAAGACA	835.484029799916	0.306485960333084
TCAGAGTGACA	835.500294313574	0.184047753277666
ACGTTAAGTCA	835.514876114635	0.204479204966392
TACATCTGTCA	835.522321869436	0.168998196507281
ACGTCACCTAG	835.526590197695	0.217908810215778
GTCACTGACCA	835.537813352681	0.146685500525724
ACTAAGTGTCA	835.54019496986	0.217387903165504
CATGCCAGTCA	835.564984867395	0.173313578595653
CACCCTGACTC	835.571358066843	0.192149424052832
ATGAGTGAGTA	835.571381571301	0.17082212540856
ACTCTGGTGAC	835.579485636824	0.25091699079846
ATAGATGTGAC	835.5848429114	0.201345375571268
AAGATTCATAT	835.597945165425	0.149649691355769
AGGTCCAGTCA	835.599895201683	0.184809106188574
ATGGTATGACC	835.611205184326	0.234077631154853
CATCCAAGTCA	835.643538429046	0.159744130050475
GAGTCAAACAC	835.651685924032	0.164495513521113
CGATTCTGTGAC	835.654574269493	0.192740424195921
CGCACGTGTCA	835.758660341991	0.178107826886774
CCCTGGAGTCA	835.785543024542	0.171225002932926

GCAGCGATGAC	835.787863281758	0.226373167481678
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CTCCAGAGTCA	835.833532911751	0.264496260755743
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AGTCAGACCAG	835.91449689082	0.26004076498197
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AGTAATGACAA	835.95016028207	0.136710248961211
TGACACTACAA	835.988868478123	0.3522421967471
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TCACTTTGTCA	836.044607166928	0.116295067858569
ACTGTGTCAGC	836.047686436214	0.214676579966841
TGACAAGTCAA	836.085538714753	0.193995480725705
GCTTGTGTGAC	836.094735891165	0.194575525066451
GGCTTTACTCA	836.134436781766	0.128275014336396
GTCATTTCCGA	836.146699096101	0.162151988402769
GCCGAAATGAC	836.179063907338	0.197375858334164
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CAATTCGTGAC	836.225465579908	0.237594971957701
AGTTCCAGTCA	836.268620429346	0.144805615993918
TCACAGTATGA	836.295640821627	0.195751086016581
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AGGATTAGTCG	836.31561865751	0.141372962105251
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ATCGATTAGTC	836.328651390273	0.248217163598589
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CGACTCACGAA	836.625702824497	0.170093835894112
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GAAGACTCTTA	836.710381933205	0.172270711853707
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CACGTGAGTCG	837.05079954734	0.211506751122217
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GATCAAATGAC	838.409929115135	0.0996196602918215
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ACTATGGTCAT	838.4769443252	0.21815081011952
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AGTCACGAGAC	841.460607621442	0.298967043163143
AAAGGATGAGT	841.469038509041	0.161664908877164
GTCAGTACTCA	841.498175855644	0.165008656813879
ATGAGTGAGCA	841.503581206004	0.159632848339268
AGCAGGAGTCA	841.516267991503	0.173944499269201
GTATTTGCTCA	841.521228897442	0.297935888932983
GTGCGGTGACA	841.530018143494	0.164125124440246
GCGCTTATGAC	841.545566861681	0.273960429734567
TCCTTGTGTCA	841.549757538321	0.135978542969478
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AAGTCTGACGT	841.569626112143	0.173600714566531
CTTATGGTGAC	841.635322084912	0.218830730900205
ACCTTGTGTCA	841.666652418582	0.224238863063576
AAGTTGCTCAT	841.673392538197	0.176241488641797
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CTCAAATATGA	841.678117126772	0.321727255368827
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CAATCTGACTG	841.850751353289	0.200295063850655
ATCTACAGTCA	841.86696278697	0.141370002018671
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ACTGTGAGCCA	841.968405039573	0.201394269453528
GGAGTGACGAA	841.975211667569	0.153232968833784

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GTGAAATGACA	842.075017710519	0.161992840809458
AGCCAATGACA	842.078894578638	0.156694849102825
ATTAGTCGGAC	842.093243729653	0.167645689023111
AGTGACATGGC	842.1156612808	0.174153501560991
AGGGTAATGAC	842.116384028851	0.155040903013458
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ACTCATCACTG	842.654412645792	0.148125057890567
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TCCATTTGTCA	848.544879436405	0.166791281008108
TGTCACTGACA	848.554597891876	0.307303897003563
GTCATCTCCAC	848.596452319337	0.108111118324342
ATCCCGTCAATC	848.598294792185	0.150096465629542
TACGTGTGAGA	848.6081803343	0.128507210647926
AATGAGTGAGT	848.622807124681	0.15655314734317
GTCATTCAGGA	848.629841472316	0.16010948491727
AGTGATGTGAC	848.634278124056	0.157996980180233
TGCTAATGACA	848.636015129859	0.214823863939997
CTAGTGACAAA	848.638200926165	0.106661216979506
AACCTGTGACG	848.641779280738	0.142822240513373
AAACTGGTGTGAC	848.648991877602	0.17218988689737
GATATACTCAC	848.664823640568	0.17202927659071
AGAGTAATTCG	848.665302156943	0.191108965549609
CGTGGTAGTCA	848.684663446707	0.204718380383965
AACCGAATGAC	848.697666813757	0.291073879245834
CGCCATGTCAC	848.722775020554	0.131295904541879
GATTATGAGTA	848.725368768139	0.156658871531866
GGCATTGTCAC	848.745789108382	0.140947528606372
GTCATTCAAAC	848.795919348526	0.223168122832072

TGACTCCCGAA	848.820153455053	0.18993309602993
AGTACTAATAC	848.846743926537	0.170726229552534
GAAGCAATGAC	848.883029276972	0.249541228812399
AGTGACGTTAC	848.888245849596	0.197188557000918
CGTGGCGTCAC	848.893503012483	0.109457365379101
TACATGTGACA	848.894632534338	0.251507320216266
AGCGCTGTCAT	848.910859024362	0.226029656165849
CGATTGGTGAC	848.94489675671	0.1994761465464
CGTCACCATGA	848.947525407112	0.159049824821069
CATCTAATGAC	848.958551245576	0.194927417062131
AATGAGTAGGC	848.962303234682	0.153160612648854
CATTCATGACA	848.980862410997	0.177828137869829
TATTGTGACGA	849.04096920855	0.209467984166821
AAATGACCACT	849.045287989032	0.184498020723247
ACTCATCGCGA	849.051725911779	0.207568383961239
GAGGTGAATCA	849.059052017835	0.172557384421045
GATGTGGTGAC	849.082364458823	0.145960294096205
ATGACATGCGC	849.124859802205	0.153684783230648
AAGCAGAGTCA	849.135417158412	0.160243643857122
TAATCGTGACA	849.147954581295	0.166354767939017
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CGTCACCGGAA	849.207989596686	0.223091926018524
CTGCATGACGC	849.213645434	0.150465968662489
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TCACAGACTCA	849.26302573181	0.152936801885971
GCGTCAGACAC	849.285219091669	0.236680702522758
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CCGCGTCACTA	849.392398299882	0.165035225499183
AGTGACGCGAC	849.409977512522	0.16439902999269
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ATGACACCCGA	849.808754174516	0.12804429401794
ATGACATCGGC	849.887194281316	0.201197486682042
GTCACCCTCGA	849.909778943035	0.188163214215058
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CGTCATGGTGA	849.914302828406	0.178779230092292
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AGACAAATGAC	850.263429159689	0.154661511048263
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GTCACCACTTA	850.279035748403	0.159342926516272
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AATAGTCAAGT	854.997116975611	0.131148230276291
ATGCTACGTCA	855.00712288653	0.172339231625575
GAACGGTGACA	855.008031617985	0.14156139733696
GTAAGAGTGAC	855.061989009426	0.157425035369117
ATGACGAGAGA	855.062644149963	0.156692539279369
ACGTCATGGGC	855.070540064185	0.159295105067465
GACTGGGTGAC	855.077316554701	0.147727331848145
ATGAGTCCCGG	855.083334311756	0.179570675078988
TACAAATGACA	855.104883474567	0.165319828514393
CGCCAAGTCAC	855.150090239626	0.149198533183431
GTCACTGTGCA	855.206837379261	0.233829410326972
ACTAGGACTCA	855.241664649875	0.220722008966636
GGTTCAGTCA	855.276715872159	0.172229411961852
GAACGTGACAC	855.296567112575	0.200000868870768
AGCTGTGACGA	855.300683381959	0.21852883730758
AGAATTACGCA	855.320220145248	0.166620316099156

TGACGTTTACA	855.352475733987	0.232038539852617
ACTCATCGTAA	855.40694186918	0.17274073536556
ACGTCACGCTA	855.410270697702	0.151866521385999
ACGAATGTGAC	855.412010361657	0.202234977017106
ACTGATGACCA	855.413919780508	0.196246329839765
CTAGCGGTGAC	855.436120096022	0.193230919893105
CCTAATGTGAC	855.491653827322	0.228192057299264
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TCATCGTCAGA	855.517262118217	0.248333017783723
CCTGGGAGTCA	855.522099296546	0.116203478593975
GTCATGCACCA	855.52643915399	0.155730925512595
AATGACAAGGC	855.539955119259	0.098331995662356
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ACTCATACCG	855.749968620451	0.178012634800435
ACTCATGTGAC	855.805624704716	0.183418770399869
ACTCATACGTA	855.819540673266	0.252969162798137
GACTGAGTGAC	855.833294893206	0.150986071784565
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GTCATGTGTAA	855.889338543709	0.118547825086769
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ATCGTCATGCA	856.041268287709	0.176070982631766
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CCAATTACGCA	856.192823679277	0.201962892047887
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AGACTGACGTG	856.691792287803	0.154885679269422
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GTCATGTCAAA	861.669265943896	0.189458367094642
AGAACTGGTCA	861.690217392518	0.186233300701604
GTCACATAGGA	861.696063436546	0.151581646408339
CGCATAATGAC	861.722104583013	0.133395851276664
ATTACGTATTA	861.729122105375	0.189123700976238
CAGTGACAAAC	861.732076303806	0.180749930029222
CATTGAGTGAC	861.74749695346	0.127285023290433

GCGGCGAGTCA	861.777917767763	0.118801309580408
ACCGTGACT	861.778782012956	0.145900876040516
AGTGATTAGTC	861.801570916311	0.22698853972397
ATATGGGTGAC	861.862228969728	0.181850645117607
CGTCATCAAAC	861.870170828688	0.135693337728786
ATACTGTGACA	861.891666997069	0.19071397780988
CACGGTGACGA	861.922742160784	0.118144067179992
CATCATGACGA	861.974882157728	0.127981613698999
CGTCATTATCC	861.977640819806	0.142332647640347
CATTGTGACAA	861.989654565069	0.128811270628023
CGTCACCGAGA	862.015053750626	0.177325408517997
GACTGACGTAC	862.019164016232	0.198000706381689
GGTCTAATGAC	862.032919725607	0.183140294423536
GCTGAGAGTCA	862.035186300198	0.174735362676001
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GTGACGTTACA	862.04335547304	0.138738030748878
AGTCATGGGCG	862.060020590596	0.178664163681667
ATGACGGAGGG	862.064607755745	0.141982768721421
GCACTGATTCA	862.066656524734	0.217682940065159
ATCGACTCAGA	862.115665042246	0.127411336337903
ATGACATTGTA	862.166520738335	0.148619879132764
CGCGTGACCCA	862.172224998579	0.145636791672491
TAGTTATGTCA	862.184456185375	0.23572978320635
TGACGTTATAA	862.193851914396	0.192560841042886
CCAGAGTGACG	862.203687168368	0.199182312656413
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CAGTCGCGTCA	862.229631688594	0.109116190117186
ACGCGTAGTCA	862.230572419211	0.167419964387875
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ACTCTTGCTCA	862.257693432205	0.184093750372919
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AGCCTACGTCA	862.311305337905	0.128204347405054
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ACCGTTGTCAT	862.70475626187	0.19072578981844

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GTCACCAGCAA	863.720662774148	0.181557072734226
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ACTTTTGTGAC	868.236789764536	0.185185030756064
CGTCATGGTTC	868.245459305371	0.209812742038487
TGGAAATGACA	868.265198308387	0.112511096226121
ATGGTAATGAC	868.278097137986	0.188354389722872

CTGACTGGTAA	868.279595875814	0.199849459861538
AATACTGGTCA	868.329187494439	0.231781052073721
TCCTAGAGTCA	868.334800580941	0.170911055561743
ACGTTTGGTCA	868.3492477921	0.209076138998591
TGGAGATGACA	868.358510318447	0.101564651449125
CGTCACATCTA	868.360803829861	0.165094887430029
CTTGATGACCA	868.370839132859	0.153910912576041
ATAATTACTAA	868.388118408094	0.15237009470121
ATTATGACCTG	868.423174565895	0.140127629138794
GATTAGCCATA	868.429811657747	0.144289946206651
ACATATGACGG	868.43039159296	0.230062163173279
ACGTCACCTGAG	868.437030823576	0.183637343200867
ATGGCATGACA	868.466158613012	0.201031500313053
CATAATGACAG	868.47190052499	0.135673190305382
AGTGTCAGACC	868.48941710521	0.151730457531932
TGACCAGGTCA	868.494121830027	0.206689263793938
ACGCTAATGAC	868.507306390568	0.1366951604361
CCTCTGATGAC	868.515560785118	0.138374339557763
GTCATGCATTA	868.544724360455	0.178798756798652
TATAGGTCACA	868.562502619081	0.133858272971209
GGGTCATAAGA	868.578691568339	0.129169419263812
GTGACCAAGTA	868.59021912121	0.150707642953301
CTGTGTGACCA	868.62906357803	0.194766789490131
ATTTATGACCC	868.661619084811	0.164718290374823
GGGTCATAGAA	868.692944725437	0.152731770116371
CACAATGACCA	868.69866042038	0.133584504167699
AACTTTGGTCA	868.710803024143	0.204782556374435
GGTCAAATGAC	868.712800187739	0.157297723360553
AACCCGAGTCA	868.733879215383	0.150290041811792
GGCTCTATGAC	868.750045357849	0.222414807409751
ACTCATAGAGT	868.76172257375	0.188436829503366
TCTAATGACAA	868.78453364787	0.144185166006996
CACGTCAGAAA	868.82692454597	0.0971336456961899
ATGACGGTAAA	868.848189454464	0.14600038945425
AGCTCATGACA	868.880632931304	0.197555779941925
TATTTTGGTCA	868.881518590214	0.193041576301714
AACCTCGTCAC	868.920961530178	0.160423399562585
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CACTTGTGACA	869.024909395099	0.140223601301968
GTACGCATGAC	869.045771703291	0.184405975711493
TCTGGGAGTCA	869.060405027466	0.152627726739476
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AGTAGTGACAC	869.171815113242	0.174478553991276
AGCAGACTCAC	869.186629018314	0.103261302397951
GAAGTGTGACA	869.218328081993	0.139641723125732
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ATGACGATGGA	869.33376412778	0.116041067338749

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ACCATGTCACC	869.342912686291	0.151925615476108
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ACGTCACAGCC	869.402784516708	0.186638189718792
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GTCACATTAAC	869.705626513668	0.140540224327169
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CCCCGTATGAC	874.721242338122	0.0963430374115284

AGGGTGAGCAA	874.732002633083	0.132303054850556
ATGACGCCTGC	874.796127983488	0.124462385996102
TGGTCATTACA	874.799625548608	0.137922501679174
ATGAGACTCAC	874.816636801607	0.241029947699707
GTGAAGTGCA	874.828382837374	0.16851690200245
ATGACGTCTGA	874.845669390476	0.221663465109034
AGCGTGTACC	874.851150237089	0.171774128109088
CGTTGACTACA	874.877441233397	0.140849489856232
ATGTTCTGTCA	874.900894921822	0.129182407263603
ATGACCACTGC	874.909539358042	0.0753374836312554
AGTTGGCTCAT	874.913459027253	0.142051727110902
AAGCTGTCACA	874.92314712804	0.172775089899047
GTCACCTGTTA	874.931336984735	0.13217940551139
GTGATGTCAGA	874.937374074369	0.0923529441367678
AGCGATTAGTC	874.942492654899	0.131300106143812
CATCGTCACCG	874.962124333806	0.153694393701105
AACAATGAGTA	874.977113529576	0.126154093395249
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GCATCGTACC	875.011359945935	0.154290694924332
AAGGGTGACGA	875.011435539067	0.131300856351935
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AGATTTGGTCA	875.017448886653	0.156985306991985
CGTAATGTGAC	875.055122936953	0.125037308833079
GAATTGACTGA	875.066645944716	0.176516500744407
CCGATGATACA	875.075609531614	0.166036281733771
CGATTACTGAC	875.084102354197	0.133729874907771
ACTCATCGTTA	875.086990100974	0.158243452636021
AAGGATGACCC	875.090157884088	0.16892427803
CTCTGTGTGAC	875.092065731961	0.199019842902183
GATGGCTAATC	875.097873517932	0.0954037048580509
ACAAAACGTCA	875.112108877307	0.174375638617193
ATGGTGACGTC	875.122321709538	0.1737235351815
ACAGTGTACG	875.132155988838	0.131801720325576
ATGACGGGGCA	875.1561497941	0.129771982309444
GTCATTCGAGA	875.175607142461	0.169380378071507
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ATATCGTGACG	875.259016438484	0.159945138892935
GGAGTGACCAA	875.260388105084	0.163321418543125
CGCTATTAGTC	875.27709568892	0.196772042028376
GTCATTGAATA	875.299179047446	0.169199986506575
GCGTCACCTGA	875.348215841916	0.126253955117638
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CACAGTCAGTG	875.472081962746	0.156559253578561
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ACCGTGACGTG	875.527834236657	0.223877235389752
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CAGCACGTCAC	875.563553502994	0.126993506646843
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AGGTATGTCAC	876.197879954006	0.147142311309572
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AGGCAAGTCAT	877.036920812125	0.188537191517266
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AGACTCACTTG	877.047681034274	0.154513234529325
ATGACAATCTA	877.07161480519	0.164610890387589
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ACCCCGTCATC	877.075065923035	0.125657466879458
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GCCGTGCGTCA	877.102345431653	0.202902783184076
GTCACAGGTAA	877.102759826141	0.137493646235216
AGTCACGACGG	877.103012012309	0.132545356172158
ATGTCATGAAT	877.129290093069	0.121223439672198
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GGTCATAATTA	877.214299581517	0.111103519585822
TGAACTGGTCA	877.230052050362	0.107426074433016
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GTCACTAATTA	877.347900223471	0.12985907580783
GAGTGTGTGAC	877.363257755872	0.12843876499722
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GTCATTGCTGA	877.414672206144	0.154920868580684
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GTCACCGCCTA	877.436821446696	0.189996005986245
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TAACGCAGTCA	877.921097807812	0.185723440764233
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GAGTCAAATAA	881.060463089438	0.12694449023209
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GAGTCAGGTGA	881.121692841981	0.12460785620343
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CGTCATTACCC	881.161490255361	0.125730730699138
GCGTTCGTCAC	881.17318826463	0.196350350807004
ACTTTAATGAC	881.197128636023	0.185062225633213
GAGACTAGTCA	881.20423099097	0.115573642679657
CGTCACAATAG	881.214247996627	0.177403995791026
GCCAGCATGAC	881.22961038005	0.162044237477951
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AACTCAGTCAA	881.340060816991	0.175757875678568
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GATGACAGGGA	881.499041839761	0.11986522336709
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GTCACAATCCA	881.506458898926	0.130857151959971
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ATTACTTGTC	887.639554034723	0.129350882858276
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GTCACCCGTTA	893.939984861242	0.167992694176079
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GCGGTATGACC	894.007416742151	0.127984847589446
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GGTTCGGTGAC	894.06081992363	0.128890107688455
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GTCACAACAGA	894.122761360485	0.0903217224387314
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CGATGACCTCA	894.182281906362	0.105770353365116
CGTCATCCCGC	894.193190289307	0.10213431581433
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AGGCGTCATGC	894.235006932216	0.121124366201885
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CACAGACTCAC	894.44995234525	0.102839908320837
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CACGGGAGTCA	894.515776960456	0.154121243971547
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ATCGTCACCGA	901.406201235263	0.189936175215055
GTCACGCCAAA	901.411816403021	0.142840462375722
AATAGGTCACC	901.460476339924	0.0906548691593664
GTGAGTCCATA	901.462966568025	0.0897781447336753
GGTCATAGCCA	901.463623546085	0.202333798039635
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CAGTCAGCGCG	901.547763774425	0.122529488190753
GGGTCACACTA	901.551714689825	0.12415024995495
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GCGTCACGCTA	901.598143512418	0.176095742430478
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AGGCCAATGAC	901.603487624232	0.162028750470816
CCTGCAGTGAC	901.617372345664	0.141758525889367
ATGACGTTCTG	901.68328414199	0.10386693395049
GATTAGTACTA	901.692780691465	0.112422391936711
CATTGTCACAC	901.731514930062	0.142681647636827
ATGACAAGCTA	901.735638487521	0.106228601626874
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CGATCCATGAC	901.759750058049	0.119940047568077
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ATGACGACGGA	901.874343964738	0.137157253639266
AGTGCCAGTCA	901.897922041954	0.0972641996163144
AAGCCGGTGAC	901.924299381319	0.0861921887182697
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GTCAGTCGTCA	901.961421936374	0.118734454002863
GAGCCGAGTCA	901.964998623743	0.100414864163717
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AGTCAGCGTAT	901.974984970189	0.122763092457778
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GAGCGGAGTCA	902.086082035605	0.113291656095694
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ATGAGTAGTGC	914.757213949071	0.122970577399063
CCGTTGTGACA	914.814442671879	0.0897625265574097
AGACGGTGACA	914.841225977884	0.104221792805111
AAGTGGTGACA	914.871899673448	0.0978092345798102
CTCACGACTCA	914.878554302129	0.115223769259841
CGCTCAATGAC	914.90301659256	0.152462712361811
GTCACGTCTTA	914.905692607592	0.102131754567502
ACTCATTATC	914.918923409122	0.104861741296721
CGTGCTAGTCA	914.928047040786	0.10015265024574
CGTGCTGACTA	914.928050007981	0.141536617957706
AATAAATGAGT	914.935549509027	0.122165966124596
ACGCTATGACC	914.949976265467	0.11251283128931
AGCTGTGACAA	915.049947445057	0.0707180988204269
AGCTCAATGAC	915.0583355173	0.109103629808648
AGCTCCGTCAC	915.063694978726	0.117458157868367
CAGTCAGGTCA	915.066073378807	0.0933566911716555
ACGTCACGGCA	915.076903683256	0.114654244172625
AAACCGTCACA	915.084654298217	0.0865653536539087
ATATGTGACAA	915.126661051304	0.127971988295038
GGATTAATGAC	915.154942789891	0.0980977255393777
CGTCACACACC	915.177171880443	0.0928936999583099
AATTCATGACG	915.18299062507	0.121175575081003
AAGTTGACACA	915.189399300431	0.094929524803151
ATGAGTCCGGA	915.191977497455	0.0904565174851318
CGTCATTGTGC	915.200502590824	0.0753538699791968
GTCACCCACGA	915.214840954681	0.110599985716369

AGTGTGACCAT	915.243038830912	0.0849348897003879
AGTTTCCGTCA	915.243943513169	0.137558621919356
CGGGGTGACGC	915.289228945469	0.106125315576795
GTCACCTCCTA	915.295564157491	0.0773366713018793
GAAATCGTGAC	915.298791779706	0.0801059523932542
GTAGTGACATA	915.305961891032	0.0973575689158708
AAGTGCCTAAT	915.318505552308	0.0971761812883468
TGACGCGTCCA	915.363599643307	0.0986225435207056
CTGGCCAGTCA	915.414256605451	0.140088384288831
ATTACTAAGAA	915.492275644893	0.0932970010235757
GAATTACTGAC	915.527938638961	0.12413757349985
CATGGGGTGAC	915.529998108995	0.0808844303209735
AAGTTAGTGAC	915.563717410972	0.120807939697361
GACAAGGTGAC	915.593775888974	0.101123834103815
CGAGTCAGGAC	915.702678444285	0.142110694848269
ACGAAGTACCC	915.703178718661	0.137955660930116
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ATCTTGTACCA	915.736894717438	0.137985175608324
CAGGTACGTCA	915.794023078235	0.147636677466388
ATGACGATCAA	915.814432925007	0.0730652257990983
ACCATTGCTCA	915.831284537136	0.123542093543012
AGTCAGAGAAG	915.833697556191	0.0941253220037522
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AGTGTCAGAAG	915.876536201566	0.103333350988779
GTCATTATGTA	915.889415261184	0.0802133980473371
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ACCACATCATA	915.950292573728	0.0820965963457705
CAGCGTGAGTC	915.950872896926	0.113446811783854
ACTCATCTTCT	915.951364414295	0.117467395821859
TAGCATGACAA	915.989794962914	0.0819852698314998
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ATGACGGGCCC	916.034081810974	0.0933354510708009
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CTGTCATTATC	916.137338349453	0.108328249274587
CTAATTGTGTC	916.169025277673	0.142023274553543
CTACGTGACAC	916.170162242688	0.102176604217577
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GTCACCGACAC	916.236451157103	0.104672384961537
AGTCACGGGAG	916.2374670703	0.106017868921451
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GAAGACGTCAC	916.432447656212	0.160127701156457
AAATAGTGACG	916.435721359991	0.0857051970667181

CCTGCATGACG	916.462324728514	0.1176113583545
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GCTACAGTGAC	916.476536064674	0.12348759227953
GTCACAATCAC	916.551773433375	0.10932648567562
GACTAATTGCA	916.607531061424	0.129658929718157
ATGTATCACAT	916.611903116782	0.0900485704935179
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GAATTGACACA	916.639819976642	0.108925155743689
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ACCCGTGACAC	916.691036826167	0.105654332853352
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GCGTCATGTCC	916.711661150818	0.107857507239906
AGATTGAGTAA	916.715278257917	0.0796662034322696
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CTCAGCGTCAC	916.829789927382	0.0971212400670083
ATTCAGGTGAC	916.830626013585	0.0940149641881194
AATGCACTCAT	916.88594207148	0.0925385240518797
ACCTAGTCAGT	916.903965936222	0.1532716294811
CGTGACGATAC	916.953482459663	0.0978203489330044
GTTGTCACCTA	916.957886687038	0.142089352315902
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TGCTGGTGACA	916.997270478357	0.123400353333317
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GTGATGCAATA	917.039602247568	0.108971005810055
AATGAGCCAGA	917.057687479397	0.139267653963965
TGACAACGTAA	917.061191543562	0.0793715646254484
CGTCACTCTTA	917.061559890014	0.0828991975060916
CGTCATGCAAG	917.061780831222	0.0881834125752804
ATGACGACTGC	917.073464815728	0.080829090509546
CGAGCCATGAC	917.100533936757	0.0706990474218978
ACTCATCAAAG	917.107087014976	0.0683260591178168
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TGACCTACTCA	917.154524879098	0.123960958667669
GACTAATCTGA	917.17641493693	0.127261500617041
TCGTCACATCA	917.192656633907	0.0911052310059432
CAATACATGAC	917.218273958326	0.0915223555433939
AGGATCGTCAT	917.233140723856	0.118261229389056
CAATAGTCAAC	917.269513581018	0.0963251918472879
ACACATCATAA	917.27162672338	0.0868165518058333
AGTTTTCGTCA	917.312041748875	0.0901432753348582
GTCACGACTAA	917.36414463153	0.14821376757669
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GACGTCACATC	917.524540576695	0.0936309712830049
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TCATATCATGA	917.551771752835	0.095983898706874
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ATGACGACCTA	917.805516431361	0.133789628658703
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GCCATCTGTCA	918.062746010119	0.139226503161992
CTGTCACAGTC	918.091847887095	0.0961097825684846
ACCAGTCAGTG	918.09540646135	0.165639654618515
CTCGGGGTGAC	918.100112748193	0.103173292494363
TGTCATGGTAA	918.110237588537	0.107074319696225
ACTGCTGTGAC	918.11554491945	0.0940668055611977
GATGACGGGGC	918.118617577296	0.0786471888012484
ACAGCGACTCA	918.154957134683	0.168924534363919
ACGTCACGGCT	918.159831325312	0.126618389863673
CCGTCACATGA	918.168173401396	0.168044773806834
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ACGTGCGTCAA	918.597359134208	0.0927415045408733
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GTCACCTCGAA	918.755179065459	0.116041349466955
AGTCACGGGAA	918.755775127579	0.0833917337162354
ATGTCATTAAG	918.759463980016	0.0722895798078902
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AAGGTACTCAT	918.836820840576	0.158259342659747
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GTCATCCCAAC	918.92613622549	0.107722862031284
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GCCATCCGTCA	919.08870463391	0.0798143801589806
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GGTGTCTCATA	919.289541282735	0.0978451714820578
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TGTGACAGTAA	919.336137727066	0.0770410591384389
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GCTATTGTGAC	919.397182632549	0.110234010568901
AAGTCAGAGCA	919.403958491488	0.117338761021801
AAGACTGATTG	919.405899071957	0.100510826053036
AGTCAGAAATA	919.427251039501	0.0811304002520069
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CGTCACCAACA	919.449674412695	0.10789783897588
AATGAGTGAGC	919.457633963402	0.0950907397989407
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AGTTGTGTGAC	919.516048923004	0.13869762457462
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CCCAAGACTCA	919.567262634168	0.0701433279571029
GTCACAATCGA	919.587531150494	0.0725469735111162
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AAGCATGACAT	919.883903799163	0.121916184335895
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CACAATGACGG	920.161426699882	0.135163885144746
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CACGGTGTAC	920.270750209963	0.149885294116029
CAGCCTGTGAC	920.292503016867	0.0763453257643148
AAGATTAGTAC	920.293500260049	0.0793891636692063
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GTCACCAGACA	920.667391161685	0.111902364847996
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AGGTGTGTAAT	920.792344496264	0.0928059507489333
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GAACGCGTGAC	921.397404712341	0.102896328849322
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AACGTCACCCT	921.45453508371	0.0813090444575087
CCTAGAGTGAC	921.460400330279	0.0975599293739836
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GTCACGTATCA	921.512000619256	0.133925918822839
AAGATGTCACC	921.531790528693	0.0778581350287537
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ACTCATCTTTC	921.617638095044	0.0827844292547284
ACTCATATCAT	921.623071780751	0.129971357130332
ATGTCACCACC	921.637080712199	0.0982792237725309
ATGAGTATCAT	921.666639297861	0.0510928797388704
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GCTACGTGTCA	921.70709202346	0.102376489897356
TATGTCACGAA	921.748011663345	0.0927203921448794
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ACTCATATTTTC	921.7809065449	0.0763432555769495
AATGACATTTTC	921.80974500196	0.0904662131896405
GTCACATTTAAA	921.843127601469	0.105665079605087
AATGGGTGACA	921.855648171015	0.09833555611765
CTTCTTGGTCA	921.883924788668	0.0770791750824055
GACTAATTTCC	921.926969831146	0.0757531068977173
CGTCACCATCA	921.946063081387	0.134793673684939
ATTAATCACCG	921.966530943103	0.0944349252592624
ATAATGACCAT	922.078404691688	0.121806148337307
ACTCATATTAC	922.154684631314	0.100030294206241
TATGTCACTAA	922.183424000474	0.1037042538231
CAGTCAGATAG	922.196594893044	0.11229310655474
GTGAGCAACCA	922.201782785572	0.115941474550376
GGTCATCGAAA	922.214061493683	0.0923732058832785
CGCCTGTGATA	922.242689432839	0.115500621554583
ATTGGAGTCAA	922.254178932116	0.106794710341499
GGTTGATTAC	922.262317385828	0.151462191812014
GTCATTGAAGA	922.332965802517	0.0847368742253007
AACCGGGTGAC	922.407784180696	0.117783619763343
AGTCAGAATGA	922.415988015226	0.0770019860004072
AAGTCACGCGA	922.446818484981	0.101967321859757
ATGACGGTCAC	922.448522850375	0.102111420378651
CAAAGAGTGAC	922.452083738223	0.0904982420985326
AGTCACGAGAG	922.492492743136	0.0986656595774681
CGTATCACTCA	922.517064228633	0.0568306185122269
ATTTGGGTGAC	922.532591922241	0.079506466642137
GGAAGGGTGAC	922.552936171959	0.0785919212057727
ATGACAACGGG	922.556285847363	0.12288163770837
ATGCATGACAG	922.575277542271	0.114925145265693
AAGAGCATGAC	922.591233105622	0.0763184560831556
GATGGGTGACA	922.635752954594	0.0804497497714334

AATCTTGTCAC	922.669431596117	0.080291316827947
AACTCATGACG	922.681363575282	0.131541698402853
AGTCAGTAGAC	922.68248163016	0.0879018696708357
ATGGGTGTCAC	922.683710470637	0.110582963377345
TGGAATGACCA	922.823217115085	0.0837678507352584
GAAATAGTGAC	922.839101546005	0.116127937239543
CCCTATATGAC	922.847265451229	0.109343288089891
ATGACTTCTAC	922.868248852465	0.114695442308221
ATGACTTGCGC	922.880805273099	0.146193169628241
GATCGCGTGAC	922.886623859844	0.0815464406283706
CCTTTGTGACA	922.888810877337	0.0851526417237396
TAGTGGTGACA	922.900330769097	0.0863923451333445
AGACTAATAGA	922.933069380453	0.0933755095620528
TCGTGGTGACA	922.978445744088	0.100561475811661
ATGACATGCTG	923.072916964551	0.109711665944589
TCGTGACGCCA	923.100128616438	0.0874386526033427
ATTGACTCTCA	923.105563819414	0.0850538752732323
GTATGCAGTCA	923.130669586064	0.0828955021675952
CCTGACTCGCA	923.177555680449	0.0810443479284957
GAGTAATCGGC	923.197332134179	0.13392064203338
AAGTATTACGT	923.205260923262	0.104941975762794
TGATTCAATCA	923.222114822615	0.122706692190575
GATTGTGACGA	923.231710519513	0.0749954389611851
AAATGTCATTG	923.235401489452	0.0770584979875083
AGTCGGGTGAC	923.240136591733	0.0731306564539253
AGTCCGGTGAC	923.302250709618	0.12414909434617
ACTAGGTGATA	923.303818361748	0.0952452624953962
CACGAGGTGAC	923.30740875716	0.115956895059881
ACTCATAATCG	923.327063491296	0.0712765056829149
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AAACCATGTCA	923.436387916901	0.140728166844428
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CCTCTTGGTCA	923.698397402758	0.0732907642273765
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GAGTTTCGTCA	923.814096774464	0.111368854969812
ATGATTCGATA	923.845313179344	0.0932700155208215
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GTCACCTACTA	923.901921421212	0.100176732592502
ATGTTATGACC	923.95710146064	0.152863583218715
TCTTTAGTCAA	923.960177519001	0.0957492948078473
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GCGCGGGTGAC	923.972500307999	0.0974071948323577
GAGTAATTGAC	923.976442844974	0.106021575251437
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CGTCATGTAAG	924.090807569045	0.113147048122044
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ATTCTAAGTCA	924.449569329548	0.107318234609717
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ATGAGTAGATA	924.75906822748	0.110374848284029
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ATACTCATTGC	924.850557402924	0.066122334175405
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CACATTACTAA	925.007292599402	0.0862808833638876
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ATGACGGGGCG	925.110417545469	0.0991684739525049
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AGCTGTCATGA	925.310248001821	0.110538118591359
ACTGAGTCTAA	925.325614952276	0.0836052299187484
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GTGAGTCCCAC	925.395537015738	0.112991248309102
CAGTCAGTAAA	925.454095326725	0.0959231650896194
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CTAATCATGAC	926.228094740367	0.108448630362241
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CTTAAGACTAA	926.376939616449	0.140104351957739
CCTGCAATGAC	926.393650674019	0.149721438224153
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CGATACTGTCA	926.435979955825	0.145909721777819
ACTCCTGTGAC	926.473081148949	0.0805767255905833
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ATCCGACTAAT	926.577660769913	0.0747912986728379
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CAATGACATTA	930.284042064654	0.0838540573306094
AGGCCACGTAA	930.287850612573	0.103027696458478
CTTCCAAGTCA	930.293185437654	0.0820756061392779
TGTCACCGCAA	930.303384799518	0.106648487183723
AGTCAGCGATA	930.467839942599	0.0733479336217543
ATTCACGTGAC	930.501942294613	0.08233198695982
ACGGTGACATG	930.58306011442	0.104255620679491
ATCGGTGACAG	930.653860364921	0.0939558838762365
AACTTACTCAG	930.676599527721	0.0936081246043652
AAGTCACGCCA	930.750954606354	0.116188257927512
ATTGTCACCGG	930.877993848939	0.0809581238480994
AATTGACGTCA	930.919376926249	0.108788885132167
CACACGCGTCA	930.931614095141	0.0738059264631938
ATGATGTAAGA	930.933614480785	0.108546797376289
TCATACTGTCA	930.961680903899	0.0903186816683357
ATTACTAAATA	931.020869099824	0.0972341648131433
CCGAATGACCA	931.033293640007	0.0483272821437227
GTCACAAAGCA	931.070940919009	0.0869786413243894
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ATCGACGTGAC	931.135677089374	0.0862310461377571
AAAGGTGACAA	931.151875368797	0.0819707696131648
ATTAGTCGCTG	931.248593926779	0.111603435859708
GTAGACTCAAC	931.364723558496	0.0987709551966174
ACTCATAAAAT	931.366607987496	0.140881403972479
CGGACTTGTCA	931.425818918905	0.0745562538895898
GATACATGTCA	931.431173816532	0.108474844814286
TGACAAAGAAA	931.459968577681	0.108240162124344
CCATATGACCA	931.550419844516	0.0750843666817369
CTGACTCGCAG	931.559884391885	0.0952385874484124
ACTCATCGGAC	931.57189255624	0.0870741420481168
AGAGTCAAGTA	931.57615591616	0.0985822754282251
ATATGTGACAG	931.581244638144	0.133732971073999
ATAGCAGTCAG	931.587622045037	0.0723736193016538
GACTCACGAGA	931.626468433447	0.0963757733750073
CCTCTGACAAA	931.664632949441	0.088385170273816
AGTATGTGACA	931.665986029582	0.0819203045222747

AATTGACTCTG	931.810726719315	0.0689255476063076
ATGCTCATGAC	931.870222202307	0.0960070398179469
CAGTCAGTGGC	931.934429653221	0.078223802798606
GAACGATGACC	931.936962881646	0.0759139093700374
GATGACGGGGA	931.97864615845	0.0938842643852767
GAGCATAGTCA	931.993831455049	0.0709105939991289
ATGAGCTGGCC	932.038556536086	0.0903140166808352
GAAGGGTGACA	932.054512641691	0.0668472259007236
TACTCATTATA	932.054949590448	0.068169556658047
CTTAACATGAC	932.163640965392	0.0670775309440024
CGGATGACCGA	932.17189701543	0.100151872587292
GTGAGGTGTCA	932.172434084536	0.0942143435250831
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AATTAGTACCA	932.235247847527	0.0715214094788863
ATGACATCGCC	932.239841446349	0.0758961106088696
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AAGAGTGACGA	932.302033831892	0.0764628199846011
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ATGACGTCCAC	932.353567327832	0.0716619859934982
ATACTATGACC	932.368757801284	0.0815434948729727
CGTCATTGTCC	932.375105125838	0.069127593386721
GAGTCAAATTA	932.388620445035	0.112286090493755
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TCATATGGTCA	932.432239103713	0.0884952045000054
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TCATGGTCACA	932.480009194524	0.0922075903788851
ATGCCATGTCA	932.524273396584	0.074699114928477
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ATACACGTAAC	932.694485596214	0.0902418584283158
GTCACCAATA	932.703283426021	0.0736640159008542
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CGATCTCGTCA	932.862369717526	0.0764993625432311
GTGAATGACCA	932.872684094071	0.132809228482829
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GAGTCGTGTCA	933.146990621897	0.0964782993377852
GGCCGTGACAC	933.174658697159	0.0877122629199064
ACTTCTAGTCA	933.201470787739	0.070682709061916
AGAAGAGTGAC	933.204732535888	0.0737559045621038
GTCGGGTCATA	933.224911735892	0.0728707587114965
ACGATTACGTG	933.250901039009	0.111395598282597
GTAGTGTCAGA	933.268200384062	0.0943500348180262
GTCATGCCACA	933.291855738634	0.0637252399575613
CACGCCAGTCA	933.323868209494	0.0799278845241625
GGTACCCTCAC	933.329269169199	0.0741758606646785
CAGTTCTGTCA	933.362762089007	0.103919928432944
TGGCTCATTAA	933.38714260002	0.0841213751245586
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GGCCTGACGCA	933.471641523752	0.0757129943235926
CATAAGGGTCA	933.490765041044	0.0795723496003679
AGCACAGTCAG	933.502309497225	0.0689802159758105
AGGAGTAATAG	933.517754157848	0.0694785401255936
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ATGACGTTGGA	933.536575391392	0.0712364472485112
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AATTTTCATGAC	933.611324024585	0.0942188453373795
TCCGGGTGACA	933.617365710106	0.110405163477762
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AAAATGTGATG	933.631554411068	0.0990507799606309
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GTCACAATAGA	933.668924117638	0.0649324432141208
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GAGTAATATCC	933.732792242925	0.0963966471454511
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ATTAGTCGGAG	933.858979350953	0.0749418339688634
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ATGAGCAACGG	934.205094571919	0.0934203887887991
GTCATTAAGAA	934.215646928783	0.117509304400836
TAAGTCAGCCA	934.215702492588	0.0854944314698628
ACTGACTGGAT	934.231706862649	0.0872274976618985
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AATATTACTCT	934.571599070308	0.0900923486902453
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CAGACTAATAC	934.864217192837	0.102193250696198
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CACGTCAGAGG	935.709861141271	0.0912558521771363
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ATTGACTGTTA	935.940608401364	0.106260576310018
GTCACCAGGAC	935.948719516544	0.0820123217771966
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GAAAGCAGTCA	936.423345993813	0.0484160523413036
GTCATTAATTA	936.455307318035	0.0890509983737927
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GTCACCGCCAC	936.536514402915	0.0975587650313409
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ATAATGAGCCA	936.813622245822	0.100694187395215
GAGTGATGACC	936.862558444707	0.0849847780565534
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ACTCATAAGAA	938.339352461036	0.0673059191746979
GTCACCCTAAC	938.400643533537	0.0816904462520917
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GTCACACCAC	938.604050056287	0.0769963001334545
GTCACATGCAA	938.620302772381	0.108185058154119
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GAGAGGGTGAC	938.630162777903	0.065898436827635
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ACCACAATGAC	938.789278669897	0.0656229007850003
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GAGGCGTACC	938.870591550977	0.0653675220934273
CGTCACATGCA	938.961317986523	0.0652249403291736
GTCACCTGTAA	938.969823470899	0.109908192037642
AATTACGCACT	939.008325529115	0.0643774156108201
ATGTCACATCG	939.009718799114	0.079225371200292
CTTTATGACCC	939.046209320734	0.0719750957393689
CTATATCGTCA	939.072680774797	0.0820127482674347
AAGTTGTGACG	939.083558247348	0.102716609178336
GCGGAGAGTCA	939.09592916045	0.065179342125642
AATGACATTGC	939.148965772313	0.089018855479221
AGCGCGAGTCA	939.161828564605	0.0778759968668211
GTTTGACTGAA	939.175799211729	0.0591516254528133
ACGTGATTCAA	939.206929662306	0.0687455108218701
CAAAAGTCATA	939.279509200095	0.0756360916619959
ACTTGCTACC	939.33207246908	0.0665873688309653
GTCACATAGTA	939.35562585869	0.0817856644466771
ATTACACACTA	939.355927383486	0.063172519992355
CTATCGCGTCA	939.3603062135	0.0839427745036671
AGTCAGACTGG	939.388999780639	0.120023576267854
CAGTCAGCTGG	939.419692287187	0.113752302398751
ACCATACTCAT	939.491178246229	0.0841226043485751
ACGTCTGACAC	939.496126637092	0.0674262400679553
CCGCGCAGTCA	939.527268723521	0.0740046010683376
AGGTATGACCG	939.533872326831	0.0690882781349143
AGCGTCACGCA	939.53731169354	0.0578722885272542
AAGTCAGAAGC	939.569433715736	0.0627434231744733
GGTCATCGGTA	939.596046676778	0.0946900375244986
CGCCGTGTAC	939.665042775069	0.118004585440598
GAAGAGAGTCA	939.666119739176	0.0569150177392078
AGTTAGTTCAT	939.692640150662	0.0822921862214761
AGCGTCATGGC	939.710319388086	0.0670752870546646
ATTTGACGCAA	939.712897934599	0.106827302616408
ACGTGATGGTG	939.730240747217	0.0728764504495752
ATAAATGACCA	939.737457981168	0.0716729967165866
TGGTTGAGTAA	939.73834520742	0.0650411156124629
CAGTGTCAGAC	939.805316800777	0.0594702948827614
CGAGTCAAACA	939.899336435878	0.0846265431855494
GTCACGCGGAA	939.943286074043	0.138491070321482
GTCACAAACAC	939.973655082997	0.0847664826001385
TCATCTTGTCA	940.047996442389	0.0795666918003825
GTCACCTATAA	940.059132661609	0.103088889905633
GTCACGCAACA	940.07542816101	0.0953087616431692
GATCTATGACC	940.125280727763	0.0741120644507829
AAGTCAGAGCT	940.136087134826	0.0701455422000601
CCAATGAGCCA	940.1390766953	0.0980734480468412

AAAGACAGTCA	940.155826940061	0.0820409740111861
ACTCATCTGTG	940.156549218033	0.0688436989996588
GTGAGTCTCAA	940.164736887976	0.0944324893695329
ACAGTCAGTGA	940.227628231471	0.0813234342335176
AGTCAGAGCGA	940.230797224104	0.0738374050512466
GTTCTCCGTCA	940.236329756168	0.0981588361126167
ACCATGACACC	940.259914319702	0.0831172401137557
CGTCACATACA	940.268521272083	0.0743262776766607
AATCAGTGACA	940.283355265356	0.0399072982522197
GGTGCGACTCA	940.436452891472	0.102188144655276
GAAGGGGTGAC	940.455843528009	0.0933926911837655
ATATGACGGGG	940.484139949349	0.0589296564849675
GACAATGAGTA	940.488385230701	0.0678519821072544
GTAATAATACA	940.488893069718	0.129195731394877
CAAAGCGTGAC	940.496940620445	0.0689341787057695
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ACTTGACTCCT	940.542680988784	0.0729878994000471
ACTGTGAGTAC	940.58321052949	0.06999780258799
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GACTAATCCAC	940.798448642145	0.0871774981860878
GTAACGCGTCA	940.840840676122	0.0777560459374121
GCCAATGTGAC	940.84224214357	0.0633580143726503
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TGCAATGACCA	941.069996602908	0.0815200539116472
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AGCCCGTGACT	941.230764380783	0.0713329766727003
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AAACGATGAGT	941.33873523048	0.0699403296988028
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ATGACAGCCTA	941.522988720266	0.0835089249089586
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CACTTTGTGAC	941.540285192753	0.0825347075914516
AGGCAGTCACT	941.569249998757	0.09758726839061
AATTACTCCTC	941.587062863255	0.0615637511445637
GGTGAGACATA	941.670102019163	0.0552605088618673
GACGACTCAAC	941.683380261728	0.0641810346237162
TAGGTCATACA	941.692525728548	0.0578712831928248
GTGATTAATAA	941.697456115241	0.118296400511649
CAATCCGTCAG	941.706183358053	0.109493902845418
CGCTATGTCAC	941.706934859547	0.0846172730903691
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ACTATCACTCA	941.786951828418	0.0710589804910151
AGAAAAGTCAT	941.788038204206	0.0984742339218968
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AGGGTGGTGAC	941.841046554617	0.0896502837281978
ATCTCTAGTCA	941.879188236606	0.0869133762274615
ACTCATATTAG	941.891365001179	0.111481751882005
ATGACAACCTC	941.908049208194	0.084573050743147
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CGCAATGAGTA	941.935470739363	0.0961323996643078
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TGTCACATGAA	942.067702320641	0.101048250338468
TGACAGAGACA	942.122508528917	0.0857997548079907
CTGCAGTGACA	942.149163821174	0.0767717708528603
CGTACTTGTCA	942.173769761972	0.0912324472851293
CGTCACCGTAC	942.175653656225	0.0698865705312465
CATAAGTGACG	942.231589280908	0.0713928692508367
ATGATTACGTG	942.288371833309	0.0742814070273111
GGACGGGTGAC	942.333121191623	0.0800700086180325
ACTCTGTCACT	942.339551979821	0.0765825148565631
TAAGCGTGACA	942.355433823427	0.118535868706002
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TACACATGACA	942.398175574257	0.0550216745949487
CTAGATGAGTA	942.449774520138	0.100864536670064
TCTCCGCGTCA	942.455982540791	0.0612926056970615
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GTCACGTCAAC	942.49083666346	0.0687541303652639
TCGTCACCTCAA	942.50040774108	0.0579970982864133
GGTCATAGCTA	942.512275630848	0.09694855597188
AGTCAGCTCAT	942.544648296372	0.107744585658535
AGGCGTGACAC	942.592479332743	0.0548042335484891
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AGAGTCAAGGA	942.625456509614	0.0957035943162452
CGTCATGTTAG	942.627144417747	0.0623978233344006
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GACTGTGACCC	942.711520476437	0.091136400433057
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AAGATATGAGT	942.851453150465	0.0655642519366212
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ACGAATCATAC	942.92547955524	0.0629061249063925
GTCATGTCAAC	942.933734843142	0.0901254155868924
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CCTGACTCGCC	943.004087978794	0.076481295107795
GAGCCGCGTCA	943.005172518676	0.0991989936474759
TGACATCACAA	943.081997491766	0.0834594784376862
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ACATTATGACC	943.150916502734	0.0993645553050844
CCCGGGTGACG	943.162537156586	0.0810625476319849
AGGGTCATTCA	943.204211337952	0.0909886917621295
CGCGCATGACG	943.230229503014	0.0615945971180816
ATACGTCAATC	943.251641661682	0.0801075219829629
AACACTGACTG	943.252379751961	0.0736758314174988
CATCGTCATGC	943.384481119754	0.0547944403531414
AGTTGTGACAA	943.450078641702	0.0993302461057636
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TCATATGATGA	943.513012106414	0.0764696056349745
CGTCACAACCA	943.525193382212	0.0854994924655724
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AGTGGTCATTG	943.7289820606	0.0684713987217734
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GAGTGGTGACA	944.023971660904	0.0519138791218372
GCCTTGACTGA	944.089274834019	0.0603109248907325
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ATGCTGACGTG	944.186812059501	0.0931598753651432
AACTCATATGA	944.220459091179	0.0616958424158245
CAGTCAGCATC	944.311697931051	0.0760625951987318
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GTCATTGTGCA	944.357060017407	0.0785871230720539
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GAGTAATAATA	944.392235316696	0.0764751377851519
CAGGATGTGAC	944.436766584549	0.0647739422358725
GTATGTGACCA	944.443089357983	0.0984409419094639
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GGGTAATGACA	944.753645439949	0.0923353309853008
CTCGCACGTCA	944.758861346428	0.0778351676196289
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AATTAGTGTCA	944.797734282753	0.0636192271876799
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ACTCATTGGA	944.894177871424	0.0666481216394678
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ACCATGACAGA	944.926643615175	0.0608132282018393
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GGCTATAGTCA	944.977284398319	0.0777874635159153
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AAGAGAGTCAG	945.03002117781	0.0585296278500682
CTAACATGTCA	945.032069936731	0.0580189883802673
GTGACAATACA	945.045441759751	0.0626637978930337
ACAGAGGTGAC	945.103290431143	0.0553515667134034
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GTATTGTGACA	945.15591216295	0.0791732568573921
ATCTACTCATC	945.218484239888	0.0616470902842783
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ACTCATTGAC	945.53829660599	0.053853221148952
ACTCCGGTAC	945.539906495056	0.0780342127349252
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GTCACCACCA	945.622762583652	0.0973335783579806
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ACCCTTGTGAT	945.67985685562	0.0614257055118725
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CACAATGAGTA	945.910822538143	0.112159605067128
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CAAGTTGTAC	947.007127981575	0.0744842621840288
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CACGGAGTCAG	947.018082281394	0.0934430103417662
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CACGTTGTAC	947.486096413744	0.0798333787931033
GACGTCACTAA	947.541756116006	0.0692186142500362
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ATTTGCGGTCA	947.666701870863	0.0947427705182728
AAACTACTCAC	947.681512163533	0.0667216857028791
GTCACCCTCCA	947.734602241239	0.0829123718803028
TCGGCATGACA	947.74111576117	0.056822288262081
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GAAATGACATC	947.919878332051	0.0809062674863141
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CACCTGTCACA	947.960420168714	0.0836284690231546
AGGTTGTGACA	948.056160279496	0.0768583641562642
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CCAGGAGTGAC	948.127562965813	0.0843370613314638
ATGAGGTGACA	948.146953913998	0.0761102808279553
TCACTCATTCA	948.153241737916	0.0515408182929276
GTCATTTGGGA	948.166308405473	0.0713606843126682
ATGTCATTTGA	948.227877266267	0.0729868511674405
ACGTAACGTCA	948.244300776365	0.0716175868099878
AGCCACGTAAC	948.334835759708	0.0598777951034608
CACGTGGCTCA	948.341986859163	0.0661477829130341
GACACGTGGCC	948.352384937942	0.0877021105314722
ACTCATCCGAT	948.360354975282	0.0554496628795878
GTGACACTCCA	948.362488062427	0.09606040229133
ACGTCACAGAG	948.398122561778	0.0644538788084132
AAGGCGTCACA	948.554914122287	0.0531386674735062
AAACTGTGACG	948.574891029922	0.0681687915733563
AGATGGTGACA	948.609520340251	0.0658026102631831
TACTTGACACA	948.665304466009	0.0654039482675669
GATGGTGACGA	948.734825045753	0.0500714198663042
GGAAAGGTGAC	948.76104073609	0.0492334238551921
ATTCATGACAA	948.763002465828	0.0657800299741296
AAGCGATGAGT	948.780139800503	0.0712898131401927
ACTCATATTAA	948.813231028098	0.0625617348486234
CCGTCATCTGC	948.817297682367	0.0692124879611202
CATGACAGTGA	948.837260335937	0.0865751566073504
GACTAATCAAC	948.848926648899	0.0747333338452152
GTAGTTGTGAC	948.885758867264	0.0558173881659794
ACTCATTTGAG	948.902153912464	0.0592776839777556
ACCGCGTCAGA	949.013030787176	0.0669566098366168
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AACGTCACCAA	949.047855922777	0.043247655533326
GCTTGACGCAC	949.199308104188	0.0580266963464057
AGTACTCACCG	949.209511781603	0.0661766528465964
CGACTCACGTC	949.23158473019	0.0477378249853604
ACGATTACTGA	949.279682718938	0.0764967538431383
AGTAATTGTCA	949.286131630595	0.0597498520555781
GATCTTTGTCA	949.340450338188	0.0640742743659228
ACGACTCAATC	949.364686550294	0.0679953438273005
CGGTCATATTA	949.40162438239	0.109541360117805
ACTCATATGTC	949.419621598867	0.0862974056982335
CGTGAGCAACA	949.431959742063	0.0987175954721889
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CGTCACCCATC	949.473221440875	0.072640114884017
AGTTCTGACAC	949.475176428891	0.0485102925184226
GACTCACTTGC	949.612320339454	0.0520203294077313
AGATGTGACCA	949.624564129174	0.0742523267366128
GTCACCTGCTA	949.79975724695	0.0617693673648241
CGAAGAGTGAC	949.853189934763	0.0494178960385171
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GAAGTGAGTAC	949.910515483086	0.0902723173678098
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CGTCACCACAA	949.970214517105	0.0533021077546797
GACCTTCGTC	950.018452684993	0.0880749083002898

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ATGACCGTATC	950.260307402633	0.0506816088305552
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AGTTTATGACC	950.345434538975	0.102780882872498
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AGGGGAGTCAA	952.54342060889	0.0660244181665151
GGTCATCCGCA	952.543610129262	0.0539646550125285
CAACGTCATGG	952.603524942758	0.0673975700332697
CATTCGTGACG	952.640912461878	0.0710984996863778
CTTGCTCACAC	952.667363287099	0.0646671306447661
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CAGACGTCATC	952.838178189481	0.0848622766568368
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AAGCCCAGTCA	952.97629873992	0.0601265567567718
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GTCCTCGTCAC	953.020209010126	0.0554856711360244
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GCCAGTAGTCA	953.336411312179	0.0584049821044801
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GTCATTAGATA	961.140897082653	0.0422006876594399
TACTCTAGTCA	961.21270884367	0.0503194331678443
AGTACCATGAC	961.226827508003	0.0490929570874655
CCCGGTGACAG	961.273351849249	0.0655323446720977
CGGTCATAGTA	961.323281426952	0.0607290927059316
ATGACAGACGG	961.364034139638	0.0591072772083421
CACATGACACC	961.447482707196	0.0527182344280577
AAGATGTGACA	961.464956209408	0.0562733635865895
TCTAACTGTCA	961.519081455598	0.0379724091948304
GAAAGAGTGAC	961.633430805833	0.0536943115735088
CGTTTCGTGAC	961.669559869722	0.0375576320467067
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CCGAACGTGAC	961.687590779643	0.0685514847357782
GGTGAGTATAA	961.699365695727	0.0443337498512365
AGGGCAATGAC	961.718993047007	0.0801647436409746
CATGTCATGAG	961.744900358415	0.0758482793104696
CGACGGACTCA	961.773370523321	0.074618057318028
GAACGTGAGTC	961.845914515209	0.0508578994217451
ATCTAGGTGAC	961.920003684852	0.045428629895308
ATGACAATGGA	961.965717820917	0.0853235381477938
TGTCACCTCAA	961.982635195527	0.0466063575010402
GGTGACCCTAA	962.024278090218	0.0609312781575425
CGATGACCTAC	962.058863233369	0.0436873205310236
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GTCCGAGTCAA	962.263542713418	0.0710790489553322
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CAATACGTC	962.307314428486	0.0716424170613706
GAACCGACTCA	962.334691094602	0.0768775639106634
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CATCACATGAC	962.420429147744	0.0652994458450164
ACTCATACGCG	962.570200233313	0.0536120155975394
CAGCAGTCAGA	962.681225136729	0.0488810165030283
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AAGTCACTACC	962.714736418056	0.0403318614332786
AACCACTCATA	962.79110342325	0.0407030634401304
GGTTATGAGTA	962.819954190064	0.0354108853219631
TAACATGACGA	962.837254424962	0.0381566307541529
TTGACGCAAAA	962.8649149995	0.0467499224351265
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ACTTTGAGTAA	963.258571810403	0.0618658847061019
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ATGACGGGGTA	963.612886303891	0.0383760419410312
ATCGATAGTCA	963.847798627086	0.055865945673274
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GAATTAGTCCA	964.13932521512	0.0669167401304324
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CGTCATGGTGC	964.235183582858	0.0758251334209423
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AAGAGTCGACA	965.741982710821	0.0502204223716203
AAGTGTCAGTA	965.851719113014	0.0529064076401354
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AGTGTGACTCAT	9.83280766485647	0.142020131451215
GATGACTCATTC	10.2474037628112	0.20696790415465
AGTATGACTCAT	10.397761713445	0.0541109826225076
ATGACTCATCGG	10.497948613403	0.119268924606958
TGATGACTCACC	10.6397870545755	0.0769244660625327
AATGACTCATTT	10.7384351385721	0.107768623029179
CGGATGACTCAT	10.8198309314954	0.110221153917092
ATGACTCATCAT	10.8538789738981	0.17509154772439
AATGACTCATT	10.8714597170191	0.26518336757247
ATGACTCATAAT	10.9229484393296	0.395708827678148
ATGTGACTCATT	10.9365611232273	0.179451057608884
CGATGACTCACC	11.0188668968666	0.16995800419287
AGTGACTCATA	11.0451023977526	0.0461427726499892
AATGACTCATAA	11.1729065603442	0.230720296340799
AATGACTCATCG	11.1972829474896	0.0344488317795791
AAATGACTCATG	11.2280434012176	0.105501355733947
TATGACTCATTC	11.2638762288359	0.158637740320621
TTTATGACTCAT	11.3259903440551	0.164331211700882
TTGTGACTCATT	11.4055969302114	0.241660174674434
GTGACTCATATT	11.4682252937858	0.169227266662836
ATGACTCATACT	11.5398840901242	0.314097409240464
ATGACTCATAAA	11.5553897567004	0.1691472705256
GATGACTCATGC	11.59350150228	0.137913710188505
GTATGACTCACA	11.8465327713185	0.197761462910399
AGGATGACTCAT	11.9466378906036	0.0996943291294642
ATGACTCATCTA	11.9500245136235	0.0878370503701491
ATATGACTCATA	11.9915595763786	0.292431247539512
CGAGTGACTCAT	12.0001097731195	0.307836221376686
ATGACTCATCTT	12.0051738541951	0.164374323611394
GCTATGACTCAC	12.0971958549146	0.352561020250488
ATGTGACTCATC	12.2435672889651	0.138381239812754
TCATGACTCATA	12.2986413598393	0.084510847778221
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GTGTGACTCATC	12.3878517421763	0.178734285802214
ATGACTCATCGT	12.4631743535494	0.389912474824356
ATGACTCATTAC	12.5238356907772	0.325254831281271
GTATGACTCATT	12.5599773471483	0.262049120659696
CTTATGACTCAT	12.5925197938473	0.355153826304715
CAATGACTCATC	12.6320231834982	0.255936206536768
ATGACTCATTTT	12.6742063580186	0.100633704817684
GAGTGACTCATT	12.6744493581326	0.100112795914332
CGGTGACTCATA	12.74107136068	0.092770281846233
CCTATGACTCAT	12.7660705757581	0.360281659291039
GTGACTCATTTA	12.8404628069309	0.260752118150164
GGTGACTCACAA	12.880395916381	0.10808918674926
TGTGTGACTCAC	12.9268626596421	0.10890056285568
AGATGACTCATC	12.9402837598319	0.3771013299096

GATGACTCACTG	12.9558538930458	0.147772234673847
TATGACTCATAT	12.9570758303824	0.459193535539576
GTGTGACTCATA	12.9702698603859	0.313619346748334
TATTATGACTCA	13.0296611800037	0.356196876341094
ACTATGACTCAT	13.0691429122778	0.238735671675016
GGTGACTCATAT	13.0693151712696	0.155756349277301
CAAATGACTCAC	13.2086063973434	0.0341226429140976
ATGACTCATGAA	13.2392866965277	0.287079661180063
AATGACTCACAG	13.3194655663251	0.196470377256052
CGATGACTCATG	13.3977651107845	0.126705781278677
TGATGACTCACT	13.400282436709	0.166958477339034
CATGACTCATAT	13.4148980076396	0.21798173630567
ATGACTCATCCG	13.447810667791	0.267828407159142
ACGTGACTCATA	13.5057178550464	0.265752362412907
TATGACTCATAAC	13.5198712469185	0.503749638047698
ATGACTCATTTA	13.6027487881037	0.290436067024107
GATGACTCACAG	13.6434848485522	0.220516696418246
GGTGACTCACTG	13.6700319210134	0.330980962896917
GTGACTCATCAA	13.7538647032603	0.23327241566607
CGTGACTCATTG	13.759263815803	0.221653941987266
GGATGACTCACC	13.7941658918311	0.168741489897423
TGTGACTCATAT	13.8703658581365	0.2290563817847
GGATGACTCACA	13.9007059074399	0.303753285089448
TGTGACTCATCG	14.0749695123157	0.0949372585309373
TGGGTGACTCAT	14.0875549026154	0.385501286566388
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TAGTGACTCATA	14.1903751645431	0.231392161429045
GTTTATGACTCA	14.3065338074592	0.417790795527204
GAATGACTCACC	14.4137569247866	0.401358610175678
GATATGACTCAT	14.4845620807872	0.395225116939234
AGGTGACTCATC	14.515888561689	0.346524757671253
CTGAGTCATCGG	14.5186943691672	0.463646474522666
CAATGACTCATG	14.5587040043129	0.376690406431769
AGTGACTCATCC	14.5716965555043	0.230733537465042
AATGACTCATAAC	14.6380094238103	0.401107985569274
GTATGACTAATA	14.674845277075	0.0721971486332761
ATGACTCATCAG	14.7008770752446	0.389480235184098
TTCTATGACTCA	14.7084208912544	0.150908467309521
CAAGTGACTCAT	14.7229998472378	0.202449773882772
ACCTATGACTCA	14.7340964233529	0.373570802669594
GATGACTCACTT	14.75507938311	0.307282551881751
ATGACTCATGTG	14.7861559625555	0.305650180531527
AGAGTGACTCAT	14.9155362997948	0.288554147124225
GCGTGACTCACT	14.9605245223524	0.249014614606007
AATGACTCACTC	14.9634644778302	0.287052911336093
GTGACTCACAGC	15.0533824239576	0.132765273520625
ATGACTCACTCA	15.0538885055968	0.214067508651771
GATGACTCATCG	15.0914306633778	0.355784678973346
ATATATGACTCA	15.1325301671145	0.448349679345471
TTAGTGACTCAT	15.1348912518138	0.248282803903134
CTATGACTCACA	15.1671987978513	0.21229343130388
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TAATGACTCATA	15.2461382229189	0.161990293680459
AGCATGACTCAC	15.256470796195	0.150797137195773

ATTTATGACTCA	15.2784043547953	0.380209259126942
TAGATGACTCAT	15.2844071689508	0.497090635496613
CCGATGACTCAT	15.3186871944745	0.474191455323924
TGATGACTAATC	15.3327947676957	0.18351798768958
ATGACTCACCGA	15.3513344741978	0.264611228871953
TATGACTAATAC	15.3519585464071	0.233492971001578
GTGACTCATAGT	15.3634826946029	0.329814603809708
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GTATGACTCACG	15.4800194101033	0.595372661484144
TCCTATGACTCA	15.5181397222023	0.125718038922589
GCCTATGACTCA	15.5722877572306	0.513826537897872
AACTATGAGTCA	15.600676598826	0.103080211082366
CAGTATGACTCA	15.6743128650461	0.401644044752158
AGCATGACTCAT	15.7595993225646	0.0605079790389709
ATGACTCACGGT	15.8602190267974	0.0758973362196741
ATGACTCACCTG	15.8652550451988	0.199289912513055
AAGATGACTCAC	15.8887271902907	0.179650242402852
GTATGACTCAGA	16.0193334504941	0.300135616986149
ATGACTCACTTG	16.0689013820047	0.406717726296941
AATGTGACTCAT	16.0795516607352	0.691603232223687
TTGATGACTCAC	16.100406571966	0.355569116249659
TATGACTCACTT	16.1570956257038	0.22069999346327
CGGTGACTCATC	16.1598459520017	0.574969949681122
GGTATGACTCAG	16.2128476704618	0.206399618448324
ATGACTCACATG	16.2200575681753	0.395600487869399
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ATGACTCATTCT	16.3093509973998	0.534476956405752
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GTGACTCATTCT	16.332291314978	0.341818678047085
AATGACTCATAG	16.3395283092813	0.0385843418964956
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ATGACTCATCGA	16.3741976547898	0.708238139093599
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GAAGTGACTCAT	16.516202044979	0.239408774934907
GATGACTCACCT	16.5696677289299	0.432465065502905
GATGACTAATCC	16.5769102592268	0.431131037617266
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TATGACTCATTT	16.656669679906	0.603909479811966
ATGACTCATTCA	16.6823048933753	0.429818173419446
TATGACTAATCG	16.7389958448145	0.48252575603523
GAATGACTCACT	16.7571691870976	0.249271792943643
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ATGACTCACTTT	16.7821871431447	0.257220574458529
ATGACTCATATG	16.8089336380928	0.616070880924896
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ATGTGACTCACC	16.898229365658	0.296824293289604
AACGATGAGTCA	16.9909078832801	0.43519066839923
TGATATGACTCA	17.0653954048667	0.308823704548608
AGGTGACTCACT	17.085588931162	0.321291655374426

ATGACTAATCGA	17.0921150599795	0.326711286301205
ACCGTGACTCAT	17.1006891982623	0.21985183332283
GTGACTCATAACG	17.1438298238947	0.565618401220353
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GCGTGACTCATC	17.2617804619961	0.115030510651186
TATATGACTCAC	17.2724135217472	0.0737520409547269
AGATGACTCACA	17.360749392668	0.543332962199556
TATGACTCACCG	17.4366942144277	0.207948418276069
TGATGACTAATA	17.503383194058	0.174643856120873
ACATGACTCATC	17.5307952379743	0.564324436794729
GATATGACTCAC	17.5322512373637	0.313909623413732
GTGACTCATGTT	17.546575905201	0.302136208916628
GAATGAGTCAGC	17.5499967517823	0.120466566447121
TCTGAGTCATCG	17.5671730927058	0.0536824833071718
TATGACTCACTG	17.6376851109231	0.403431131245285
TGTGACTCACAT	17.6470616656233	0.207762851973968
GATGACTAATAC	17.6651554371093	0.125145678309844
ATGACTCACTGG	17.6703726704588	0.728642118712316
TCGATGACTCAC	17.672830036086	0.222789450566624
ATTGTGACTCAT	17.7112318652707	0.484348210082194
GTGACTCATTGG	17.7185485112871	0.378992418442464
TATGACTCACCT	17.8117262249397	0.15318760809353
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GATGACTACCA	17.8852514829791	0.350596245998791
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TATGACTCATCG	18.100411913554	0.694016895036816
GAGTATGAGTCA	18.1302226264238	0.249395263838489
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GTAATGACTCAT	18.2275633175887	0.672087124101429
ACAATGACTCAC	18.2432342663842	0.521635884111923
CAGTATGAGTCA	18.2463265716152	0.0897993375913224
TGAGTGACTCAC	18.247768616112	0.429526935280713
ATGACTCATGGA	18.250852904838	0.364667371103762
CGATGACTAATC	18.2913912294391	0.369532964482856
TTAGTGACTCAC	18.3750180729569	0.216934307374596
TTCGTGACTCAT	18.4130768857304	0.282134407977718
TTATGACTCACC	18.4890559102636	0.503042516379907
CGATGACTCACT	18.5351955991508	0.229486714632841
TATGACTCACAG	18.5609739570913	0.637148060025573
GTGACTCATTAC	18.5890224592296	0.1504909425764
CCGTATGACTCA	18.6122747105983	0.261790458133444
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ATAATGACTCAT	18.6290776252729	0.35957160219352
TGTGACTCATGC	18.7626764515656	0.358525922640735
CGTGACTCATTC	18.7822581241571	0.0908310796874286
GATGACTAATCG	18.8374102252043	0.333293521098146
TAGGTGACTCAT	18.9004389546305	0.163512280940462
TGAGTCATCACG	18.9146798754988	0.509204257447482
CGCTATGAGTCA	18.9578324700453	0.298652672928917
GTGACTCATCGG	18.9666456973812	0.453648851628619

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ATGACTCACCGG	19.1034351732234	0.525451593456668
ATGACTCATCCT	19.1110508732139	0.622473794136
GCAATGACTCAC	19.1186728793382	0.453752759807434
CATGACTCACAA	19.1909622154667	0.307879195670051
GATGAGTCAGAC	19.2196006751907	0.346578960394552
AGATGAGTCAGA	19.3022332205956	0.463901963862469
ATGACTCATCTG	19.3453744373336	1.2017382564618
CGGATGACTAAT	19.3580575355643	0.234746230591188
TCATATGACTCA	19.3721445634715	0.236650757464717
CGATGAGTCAGA	19.3784054808078	0.824858588354223
TACATGACTCAT	19.4142776748439	0.132953481987376
GATGACTCACGC	19.4201569999515	0.460602604178439
GTGACTCATTCG	19.4327582490705	0.708002538492288
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GTGACTCATCGA	19.469268807519	0.2272517537096
TATGACTCAGAT	19.5172017979997	0.232566596431624
GTGACTCACACG	19.5407915049372	0.290888773998947
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CACGATGAGTCA	19.7169874371145	0.582901246284214
CCAGTGACTCAC	19.7241703185895	0.242758891610293
GTGACTCACGAA	19.7426007462382	0.136048532190863
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ATGACTCACACT	19.9396549219808	0.312201916285788
GGATATGACTCA	19.976767757091	0.431165306614752
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AATGACTCACTT	20.1377753206264	0.407452197925649
AATGACTAATCA	20.1457969079518	0.208256170515378
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ATGACTAATTAC	20.1709617488317	0.19229617173977
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AATGACTCATTC	20.2626345481309	0.424491626154727
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ATGACTCACCTA	20.3957298594206	0.350328852080056
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TACGTGACTCAT	20.4472403497831	0.624783449283561

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AATGTGACTCAC	20.9343483689469	0.498845658822793
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AAGTGACTCATT	21.1081170793572	0.865134072948973
AAATGACTAATC	21.2713173950452	0.261100404991585
AAAATTAATTTT	21.2822246526644	2.90706157352734
GACTGTGACTCA	21.3459288010103	0.345969337821205
AAGGATGAGTCA	21.4152745748591	0.266046693749878
CACTATGAGTCA	21.4329195077658	0.521497089990248
AAGTGACTCACG	21.4468724009213	0.499346698418854
ATGACTCATTTT	21.4632571245561	0.434835213154578
GTGACTCACTTA	21.6100442213579	0.161882389887346
GTATGACTCAGC	21.6438128740777	0.729619616914924
CGATGACTAATA	21.681819920902	0.290417195616074
GAATGACTCACA	21.6961880179523	1.32002906696681
TATGACTCATCT	21.7388986835187	0.401295073423851
CGAATGACTCAT	21.7437628047993	1.10724220928325
ATGACTCACCCG	21.7781017181893	0.445945320040321
ATGACTCACGGA	21.8067014919588	0.409295327784756
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ATCGTGACTCAC	21.8786806446707	0.204398365354445
TCAGTGACTCAT	21.9046946773982	0.253753817945402
TGGATGACTCAT	21.9074580893782	0.853526575813359
TGTGACTCAGAG	21.9085417548837	0.213832811532282
GACATGACTCAC	21.9198184773384	0.21777891840951
AATGACTCACTG	21.9429115901397	0.442244015311116
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CTGAGTCATCAG	22.0230245791067	0.564834336034298
AATGAGTCAACG	22.0314080392006	0.417874453931706
ATGACTCATGCA	22.0738105115219	0.99697285735656
GTGACTCACGAG	22.1805183227221	0.189441871122112

GTGACTCATCTA	22.2141448467659	0.888340340856852
CTATGACTCAGA	22.2517059779381	0.299321906732054
AGTGACTCATCG	22.2717894942035	0.221813441610891
ATCATGACTCAT	22.2742286157071	0.57861801673422
GTGACTCATAAG	22.2822865831199	0.376233311984445
AACATGACTCAC	22.3278164718109	0.277570405171612
ATATGACTCAGA	22.3300096782032	0.374616962313945
CCTATGACTCAC	22.3315697180116	0.368436798956164
GCATGACTCATG	22.3728879965556	0.453257990101163
AAGAATGAGTCA	22.3824727966991	0.198595096114004
GATGACTCACTC	22.411816255612	0.367056830032425
GTTTGAGTCATC	22.4961696553462	0.25689421139193
ATGACTCACGAA	22.5002205477937	0.900857202848644
ATGACTCATTAT	22.5164207555476	0.534289895916323
TATGACTAATCA	22.5372807269077	0.464253760480624
ATGACTAATATG	22.5621344081597	0.322974460992573
ATAATGAGTCAA	22.5842639066083	0.0938434536146841
AAGTATGAGTCA	22.5946014765608	0.202366320196339
AGTGACTCACTG	22.6091398613187	0.0304540775315984
TATGACTCAGAC	22.7216790219517	0.477292937291511
ATGACTCACAAAC	22.7770986305417	0.517728431804947
ACTATGACTCAG	22.7836572566441	0.250668918688557
GGTGACTCATGA	22.8180124905375	0.800127506935304
GGTGACTACCA	22.8211714832043	0.405386442998707
CCTATGACTCAG	22.8412179006372	0.0904746309816888
CTGAGTCATCAC	23.0367554439698	0.35458237703866
GATGAGTCAGAA	23.0627836592252	0.232501032048505
ACCTATGAGTCA	23.12344781984	0.796951071168388
AATTGAGTCATC	23.1610514150191	0.0413141607472331
AATGACTCACTA	23.1890068015786	0.377754597208708
AAGTGACTCACT	23.224507400518	0.306001383319951
GAAATGAGTCAG	23.2797724793584	0.335676863642843
GGGTATGACTCA	23.325785959787	0.742520354674746
GTGACTCATTTC	23.349334098492	0.740304715847777
GTGACTCACTCA	23.3663212353643	0.214065615603596
GCCTATGAGTCA	23.4180023207228	0.335348281289253
GCTATGACTAAT	23.4210828207553	0.195588413710752
ATATGACTAATC	23.4535283719246	0.550076885127171
TATGACTCAACG	23.4597955399469	0.183440740088028
ATGACTAATCCA	23.4680690045175	0.0856641040109922
ATGACTCACATA	23.4903332554254	1.45388264769847
CATGACTCACTG	23.5016872178386	0.3945421249951
CGTGACTCATGA	23.5205529375995	0.23319952390357
ACAATGACTCAT	23.5285936870488	0.330218571235102
TATGACTCAGGG	23.5323277723321	0.217959125391626
ATATGACTCATC	23.5614120007219	1.53543258591917
ACAATGAGTCAG	23.6465255792512	0.431335315229255
GCTGAGTCATCC	23.8086991586676	0.427276354609062
GTGACTCACTCT	23.9135932094706	0.26227146387535
TATGACTCAGAG	23.9177048591449	0.500424959963825
TCGGTGACTCAT	23.9318103832334	0.397087068507218
CATTGAGTCATC	23.9392000838447	0.320571168795519
ACTGTGACTCAT	24.066369350082	0.436387081165441
TTTGTGACTCAA	24.0733991450034	0.323068659880181

GTGACTCACGTT	24.1311379581757	0.310810951478784
AAATATGAGTCA	24.1766756958738	0.355664043570332
TATGACTCATTG	24.2222880948194	0.898810952780222
TGTGACTCATT	24.2742006741035	0.37529518547669
CATGACTCACGT	24.2783406288879	0.222835531272374
CGAAATGAGTCA	24.3174554720468	0.201651972875162
ATCGTGACTCAT	24.3711605912021	0.282768601687979
TATGAGTCAGAA	24.3779588552339	0.735818119246926
TGGTGACTCACG	24.3929964056102	0.310779003393347
ATGACTCATTGC	24.537034244831	0.479534219769742
GAATGAGTCAGA	24.5440755144039	0.469406834453717
CTGTGACTCACG	24.5783480344656	0.499976393626862
ATGACTCATGCT	24.5785892840914	0.587910714717625
ACGTGACTCACA	24.6244521863586	0.58045445295119
CATGACTCATCT	24.6397822187396	0.668444839140655
ATGACTCACAGT	24.6482139553433	0.713905369223265
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GTGACTCACCGA	24.7319240377425	0.186060020753727
GAAGATGAGTCA	24.7683459637208	0.243516594502966
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CATGACTCATT	24.8466111435633	0.602258068506559
CTCTATGACTCA	24.8601249291493	0.46368654185304
GTGACTCATGCA	24.899762747061	0.757519902018327
ATGACTCATCTC	24.9310884231124	0.916253101329684
GTTGAGTCATCG	24.9698538102303	0.856583888160057
ACTATGACTCAA	25.0137692686996	0.440593014966772
AGATGAGTCAGC	25.0326725729669	0.404020254599944
TGTGACTCACGC	25.0329649747803	0.309071328234672
AGCGATGAGTCA	25.0395638148692	0.246183755693666
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AGATGACTCATG	25.0705345032208	0.300018191479334
TATGACTCATCA	25.0980955366316	1.39647539972019
CGATGACTCACG	25.1324484925073	0.0505058946584266
GACTATGAGTCA	25.1550615611197	0.44881814621419
TCGATGAGTCAA	25.2283301910909	0.583786144637126
GGTGTGACTCAT	25.2455269928042	0.672284891952984
AGTATGAGTCAG	25.2459547138169	0.27224805921235
CTTGTGACTCAT	25.2515768720602	0.601530158469826
TTATGACTCAGC	25.2597119324968	0.290833080000807
TGAGTCATCAAC	25.3102617908866	0.575382945556705
CTGTGACTCAGA	25.3445886540372	0.0985837195036862
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CTATGACTCATG	25.382742199355	0.426161067330546
ACGGATGAGTCA	25.408159976831	0.335243437372218
GGTGTGACTCAC	25.4642201500641	0.478032848858926
AGTGACTCATGT	25.495362820903	0.104853552274218
AGATGACTAATT	25.5511385040478	0.206280290386226
TATGAGTCAGAG	25.5647912210745	0.730604741219166
TATGACTCACAT	25.6015495627323	0.87867343808534
CAATGAGTCAGA	25.6055525687058	0.453004006997434
TCTGAGTCATCT	25.695269032706	0.57881858948627
AATATGACTCAG	25.6967588328961	0.478617242559862
GCGATGAGTCA	25.7386104508623	0.267417648074152

ACCGATGAGTCA	25.7749258717949	0.537217198592339
TATGACTAATGT	25.7937290280898	0.269969250977661
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GAGTGACTAATC	25.8266953744059	0.0419762163882314
AGAAATGAGTCA	25.8723206172528	0.354220704829937
TGATGACTAATG	25.8948412689288	0.192710750564974
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ATGACTAATCAC	25.9471711975937	0.274418405060136
CTATGACTCAAA	25.9809282217847	0.266820918950517
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ATGACTCACTCG	26.0795524027435	0.667087282095036
GGTGACTCACCT	26.1232780346045	0.475237299795397
GGGATGACTCAT	26.1876958105319	0.535420740553925
TCATGACTCACC	26.2937421218874	0.384064835624358
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TATGACTCAGCT	26.8112562009193	0.408433101546599
TATGACTCACGA	26.8712771000571	0.848099243629544
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AAGATGAGTCAG	26.9841074856433	0.249649198825618
GATGAGTCAAAC	26.9948811004908	0.186874419305545
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GAATGACTAATA	27.0357430655953	0.4296187056453
ATGACTCATGCG	27.0651706875845	2.02163634875028
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ATATGACTCAAC	27.0690861904163	0.11265540346032
TATGTGACTCAA	27.0758241550588	0.44418880585036
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TGCGTGACTCAC	27.176503064047	0.484239194033402
ATGACTCACTAT	27.1848515811631	1.06037223562187
TGAGTCATCAGC	27.2099245070191	0.089685160114161
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CAAGATGAGTCA	27.299626044303	0.434666966164546
TATGACTCAGTA	27.3329134110994	0.546052729891704

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AGGTGACTCACC	27.5202612580808	0.118066981986606
AATATGACTCAA	27.5480719835685	0.668115576465023
ATAGTGACTCAC	27.581795159105	0.646556190918756
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CATGACTCACTC	27.6635221973557	0.238676574011943
CTCTGAGTCATC	27.6844570303146	0.811046567912764
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GACTATGACTCA	27.8821379130511	0.627052863733681
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ACTGAGTCATCA	32.3847000426088	0.318695120036422
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TACTATGACTCA	32.4289812474449	1.23454136102306
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GTATGACTCACC	32.7934880561374	0.552620011692828
GCTGAGTCATCA	32.8117708185534	0.397243880789258
CTGAGTCATCCC	32.8417536303079	0.243964290308199
AACAATGAGTCA	32.9085698095276	0.677390625370873
CGCATGACTAAT	32.9370192844696	0.173723156826584
TGAGTCATCCGA	32.9579225877344	0.47825510149909
GCAGTGACTAAT	32.9605927536158	0.137409657166061
TGTGACTCATCC	32.9670111443734	1.27627876664315

TATTGAGTCATC	32.9726901730289	0.204415465541606
AGCTGAGTCATC	33.017806443369	0.394624795581677
GGGAATGAGTCA	33.0209847942545	0.33636346070263
GTATGACTCATA	33.1023412637176	1.71067427281854
AAATGACTCACT	33.1097574757576	1.91828315911977
CGGTGACTCACC	33.1117473572152	0.988146764727672
ATGATGAGTCAG	33.128323150712	0.691067459455147
CTGTGACTCAAC	33.1537596192848	0.248069175945378
CCTGAGTCATCG	33.1648477994994	0.488210484316895
CGCTATGACTCA	33.1890611359181	1.30742604731178
CAATGAGTCAGG	33.1894422079989	0.19661441843955
AATATGAGTCAG	33.1997142006726	0.305614213110147
CCGATGACTAAT	33.2172480576293	1.17615911513487
CCTGAGTCATCC	33.2264181425823	0.518859819920658
AGGTGTGACTCA	33.2413970021372	0.191073104761624
AAATGAGTCAGG	33.2622553143234	0.46800001697417
CTGATGAGTCAG	33.2863633786349	0.553544569530664
AATGACTCATAT	33.3493359135797	1.38557619050571
ACGATGAGTCAG	33.3556229479272	0.39060543109874
TTGTGACTCAAC	33.5765523730501	0.173446723280884
CATATGACTCAT	33.5901609016026	1.61002732439644
GCCATGACTCAT	33.5965667123428	0.62825625779096
GTGACTCATCCG	33.6092650384908	1.10157006711381
AATGAGTCAGAG	33.6535592836448	0.975872911797271
CGTATGACTCAG	33.7133770623736	0.414583975120893
CCTATGAGTCAA	33.7716373880445	0.173486509720168
CACTATGACTCA	33.9514356240836	1.3415951379233
AGGGATGAGTCA	33.9589867688734	0.568306681532882
TATGACTCAAGT	33.9904305488604	0.110942379113808
GTGATGAGTCAG	34.0528800400874	0.632494230795752
AAGTGTGACTCA	34.0662399323929	0.388399704785177
AGAATGACTCAC	34.0965508491642	1.91573640626807
CGCGATGAGTCA	34.1276639200635	0.530491463772189
AAATGACTAATA	34.1341204627326	0.364305972415032
CTATGAGTCAAA	34.1370136818882	0.251144918618824
GGATGACTCATG	34.2109970676062	0.394727072181592
TAAGTGACTAAT	34.3335331067448	0.198125512067114
AGTGACTCACCG	34.3817021853773	0.63727249812747
CAAATGAGTCAG	34.4361871115822	0.093643981493083
AAGTGACTAATC	34.4530197211721	0.0985236102362874
GATGACTAATTG	34.4559410804272	0.808885808661242
TAATATGACTCA	34.4664125203042	0.745901522945465
TGAGTCATCAGG	34.5072997401448	0.193231284529515
CAAATGAGTCAA	34.5438679251553	0.225557830470865
GTGACTCACAAG	34.5537960294854	0.137597303656739
AAATGAGTCAAA	34.5792583843108	0.262028941735027
GATGAGTCAGCG	34.5878691954985	1.17712463295707
CGTTATGACTCA	34.5960235079749	0.862288928156382
ACTGTGACTCAA	34.6128059636058	0.247957315301435
AAGTGACTAATT	34.6343730483767	0.197617560109321
CGATGTGACTCA	34.6591864117792	0.094776007508174
GTGACTCACTCG	34.7350176178143	0.567257108469279
AAAGTGACTAAT	34.8172370846663	0.183948454607046
GCCAATGAGTCA	34.8396482895594	0.185907503860702

ACATGTGACTCA	34.8588841036438	0.714503403234744
ATGATGAGTCAA	34.8636744609555	0.463806472680205
GAGTGACTCACC	34.8946158222311	0.481988450115444
AGCGTGACTCAT	34.9096398020758	1.01088172861413
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GAGAATGAGTCA	35.0220785646923	0.562243182636572
TAATGACTAATG	35.0470796894725	0.108932243091156
TCGATGAGTCAG	35.0991657407995	0.647970979922632
CATGACTCACTT	35.1298395836734	0.911437061049946
CTATGAGTCAGG	35.1711116788531	0.169330749701783
AGAATGACTCAT	35.1898741260437	1.49031676751227
TATGAGTCAACT	35.2147783077706	0.175934420685805
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GATGAGTCAAAG	35.5845416205733	0.51718831880463
GGAATGACTCAC	35.6413274759418	0.549578735190263
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GGTGACTCATCC	35.7623301426631	1.8884271623451
CATATGAGTCAA	35.7950576215724	0.212099210679747
CGATGAGTCAAC	35.795231274763	0.854383811584356
AATGACTCACAA	35.8693968734081	1.87570803935357
GTGACTCATCAT	35.8906437454617	1.54703072828721
ATGACTCACCAA	35.9093546603207	0.684738905261081
ATAATGACTCAC	35.9687157618109	1.33679799509275
GCGTATGACTCA	36.1710682917868	0.924782293808296
GAAAATGAGTCA	36.1750635533309	0.264174284831283
TTATGACTCAAT	36.2258494156196	0.383813643180307
ATGACTAATACG	36.2363975819767	0.971835505133854
ATGTGACTCAGG	36.2523189795532	0.465160985717641
CCGATGAGTCAA	36.2594882602059	0.779245645803288
ACTGAGTCATCC	36.2898719002965	0.295871326505325
GATTGAGTCATC	36.3121700015404	0.461217797913298
TATGACTAATCT	36.376363463783	0.668182044760783
TGAATGAGTCAA	36.4625131304341	0.733601074507411
GTGACTCACGAT	36.4756271295217	0.701560725450826
CCATGACTCACT	36.5559049217786	0.490094980350831
ATGACTCACTAC	36.5944120890203	0.874090990708307
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CCGATGAGTCA	36.7610092468038	1.17205968268247
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TGAGTCATCCAG	36.8149489175002	0.346240582002744
GATGAGTCAACC	36.8856858364226	0.366790643961797
TAGGTGACTCAC	36.9021811181546	0.524207804746233
TTGAGTCATCGT	36.9073589511915	0.281941093544763
TCGTGACTCACT	36.9078286321352	0.511133798125833
CGTGACTCATTT	36.9388982285663	1.31789192644575
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GAAATGAGTCAA	36.9724275711943	0.263645362020463

GGATGAGTCAAA	37.0499067711753	0.603213421552993
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GGATGAGTCAGC	37.113785235896	1.25696848159156
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CAGTGACTCACA	37.1787044586985	0.913890950455191
GATGAGTCAGAG	37.2237372107318	0.91451537718045
CGAATGACTCAC	37.3724051501753	0.70905666637574
AATGAGTCAAAA	37.3798652325771	0.317003466307519
TGGGTGACTCAC	37.4459725919204	0.515377837353727
CCCTGAGTCATC	37.4989535514301	0.173108838050324
GCATGACTCACC	37.5722644414404	1.8450196617057
GGCAATGAGTCA	37.6214332404919	0.590539059463558
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CCGATGAGTCAG	37.6827492750916	1.07579473642299
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GATATGAGTCAG	38.0172105905252	0.450104779575407
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CAGGATGAGTCA	38.3692419288884	0.420021297523567
AAGTGACTAATA	38.4426299431485	0.246989430446649
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GACATGACTAAT	38.5271463949671	0.220018576372646
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GTCATGACTCAC	38.7283526854272	0.845003985282039
GACGATGAGTCA	38.79982192193	0.357769756120115
GTCGTGACTCAC	38.8751644451146	0.603371229149002
AGTGACTAATAG	39.0766746434071	0.481788031198746
AGTGTGACTCAA	39.0960470765698	0.592662837390702
GTGTGACTCAAA	39.1265851753021	0.503878837874514
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CGGGATGAGTCA	39.1670605719453	0.247568923002351
CAGTGACTAATA	39.1837910254377	0.4620390689629
CCTGAGTCATCA	39.2144307772528	0.342756723372644
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AGTGACTCACTA	39.360998662231	0.384092993144602
ATTGAGTCATCC	39.4493153397085	0.696830404117418

AAGATGAGTCAA	39.4829172259012	0.307644174189708
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AATGAGTCAGGA	39.5516838910933	0.580839033720905
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TAATGAGTCAAC	39.5644236491845	0.170003603769604
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GATGAGTCAAAA	39.8919800573572	0.345377462140964
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GGAATGAGTCAA	40.3896584206818	0.318683969932657
GGTGACTCATGC	40.4371878931189	0.991125552946597
GTGACTCACTAC	40.4391351082485	0.643545541210652
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CGGATGAGTCAA	40.4824456864173	0.531600057567175
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AATGACTAATGC	40.9543658045672	0.382144262560285
AATGTGACTCAA	40.975571956577	0.236152951817092
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TATGACTCAAGC	42.1427731808603	0.822018822063795

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ACAATGAGTCAA	42.4778939275964	0.451663410303418
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TGATGAGTCAAG	43.2517427592801	0.403393193205316
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TGAGTCAATGCA	45.4501347202327	0.411748742487083
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CACATGACTCAC	46.1084095513803	0.868494658619815
AGTGACTAATAA	46.1464275051514	0.432130525400944
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CAATGACTCACA	46.2859479907077	1.12261404209687
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ATGACTCATGTC	46.5982435240511	1.81045948285657
CATGACTCATGC	46.6628417217941	1.50375434830484
GATGACTAATGT	46.6754807681922	1.01563046293263
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TAGTGACTCATG	46.9405905556517	0.643171957466175
TTATGAGTCAGA	47.0064491892378	1.31202459545649
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GTGACTCACATG	47.2592336882344	1.71280970358465
TTGTGACTCAGC	47.4131725808303	0.371358514914133
ATGACTCATTCC	47.428515061133	1.20851147479365
GCCGATGAGTCA	47.5043863400694	1.77257662466353
GGGATGAGTCAA	47.5067409655975	0.444124299042772
TATGACTCACAA	47.6017786280676	1.62925376068442
GGGGATGAGTCA	47.6633338193553	0.22704104278307
GTGTGACTCAGC	47.8172544464222	1.051589809000095
GTATGAGTCAGC	47.9409110869398	1.73229433251054
TAATGAGTCAAA	47.9468404565704	1.32610351164007
AATGACTCACCT	47.9732118915652	1.72219222931198
AAATGAGTCAAG	48.2335697342911	0.197791992025282
ATGACTAATTTT	48.2461915513325	0.109969144155221

TGTGACTCAACG	48.272333892053	0.701807671369507
AATGACTAATAT	48.3373327771126	1.4054990378303
TATGAGTCAGGT	48.3608918630265	1.01767630281227
CCAATGACTCAT	48.4174500349486	1.79013786541302
TTGATGAGTCAG	48.4669291536601	0.766193408491831
ACTATGACTAAT	48.543499966766	1.52784116105413
AGTGACTCACCC	48.5539548673267	1.47334795447411
AGGTGACTCACG	48.5784424610165	0.819024804376048
CGTGACTCACCT	48.6954692171294	1.10472356526404
AGATGACTAATG	48.7231335832162	0.50156032402488
GAATGACTAATG	49.1975887714725	0.468514252518555
TGTGACTCAACC	49.2479775590757	1.20745086655157
CATGACTAATTA	49.3376822348668	0.688071810430471
TGATGAGTCAGA	49.3773785914292	0.961962255723027
CTATGAGTCAGA	49.6009637546109	1.71105160901682
AGCTGTGACTCA	49.6672970370282	0.391306999963763
AGATATGACTCA	49.6749725663415	1.34834078474248
TGTGACTCAGAA	49.6826640239699	0.625127763378936
TCTGTGACTCAC	49.7650860339462	0.646720905693292
AGATGAGTCAAG	49.8088382812	0.460714410845728
ACCATGACTCAT	49.9489934755916	1.78263638491015
ATATGAGTCAAT	50.2198977447541	0.646970929130823
TTGAGTCATCCA	50.2610690288456	1.48583506343189
GTATATGACTCA	50.2821769712629	1.71228899762759
ATGACTCATGTA	50.4148864456077	1.38914232742667
GCTTATGACTCA	50.4693356668129	1.31916993362246
ACGTGACTCATT	50.5333472338625	1.78904222546068
ATCATGACTCAC	50.7300686995773	1.58502589442528
TAATGACTCACC	50.7323420642639	1.75231477316483
TCGTGACTCACA	50.8003676131627	1.38861608798553
ACCTGTGACTCA	50.8456654190297	1.75969723012774
GATGTGACTCAG	51.1026597931507	0.429013223118976
ACGATGACTAAT	51.1952307405441	1.32226544671485
TATGACTAATAA	51.2819235358281	1.7298086537891
TTATGACTAATT	51.4344229049671	1.72660042017435
GGAATGACTAAT	51.4581284163052	0.672074281449141
GTGACTCACTAT	51.6208236522815	0.655783881130773
GTATATGAGTCA	51.9531572119992	0.700108958848857
CAATGAGTCAAG	52.0951310029583	0.249790810506974
AGTGACTCACGG	52.1587227569898	0.7234474444852998
TGTGACTCAACA	52.2870556580965	0.722491922120959
CGTGACTCACTC	52.4068679983244	0.632673703592664
GTGTGACTCAGG	52.5286405561764	0.257352192471675
GGTGACTCACAG	52.5783515587373	1.75868975107972
GTGACTCACCTT	52.6884802444548	1.6716153723247
CATATGAGTCAG	52.7432277052208	0.942849002611303
GATGAGTCAAGG	52.7997340334923	0.498486963017596
ACCGTGACTCAC	53.0573889163996	0.483063189083402
ACCAATGAGTCA	53.421363985509	1.59775827578709
TTTGTGACTCAT	53.6291286985011	1.55651702280526
GCGGTGACTCAT	53.6675892588789	1.74745833112058
ATGTGACTCAGA	53.6761938758322	1.22551288881924
CTGATGACTAAT	53.7007717703416	1.7732187267242
TGTGACTCAGCA	53.7149884648213	0.453518434899254

TGAGTCATCCGC	53.739675573398	1.10030468285265
GCAGTGACTCAC	53.8086619496644	1.64473114368374
AGTGACTAATCC	53.8141701988028	0.74378412683963
CTATGACTAATT	53.9034665320345	1.25277471238638
CGCATGACTCAC	53.9486087801067	0.774862208099973
CAAATGACTAAT	54.1677253096274	1.68766760729456
GTGACTCATTCC	54.2767800117568	1.71202874121906
TAGTGACTCATT	54.2982630107073	1.2644869443663
ATGACTCACGGC	54.3493665904341	0.862517743490858
CGTGACTCACAT	54.3836632870794	0.561989435723743
CATTTTGACTCA	54.3861805812794	0.265301301319569
AATGACTCACAT	54.4104753876329	1.38936037123973
TGTGACTCACCT	54.5011669413828	1.74914549007408
TGGTGACTCATA	54.5236944746704	1.72902773461763
CTGAGTCATCCA	54.6732585758844	1.72322006142571
TATGAGTCAAAG	54.6841107626296	0.849680135001622
ATATGACTAATT	54.694341220874	1.66738328864867
CCTGTGACTCAG	54.7668467083624	0.674615096440086
TTCATGACTAAT	54.8392859567935	0.526769483459802
CCGTGTGACTCA	54.8424089964309	1.14356324908884
TATGACTCAGCA	55.0188354525799	1.05517318865662
TTGAGTCATCGC	55.0592693517684	0.23974839724209
ATTTGAGTCATC	55.1705811276271	0.946118032235486
GTGACTACAAC	55.204171615925	0.979827559393614
GTGACTCATGAA	55.2106546048169	1.70280756566314
GTGACTCACGTC	55.2630475321019	1.58880879846982
CGATGAGTCAAG	55.287750085914	0.739662476953582
GGGGTGACTCAT	55.2961463753331	1.20908024900009
TATGACTCAAGA	55.3928457831294	0.763610264535231
CGTATGACTAAT	55.4402135710981	1.0432573984458
GTGATGACTAAT	55.4626188301142	0.735948773441894
TCTGAGTCATCC	55.4763402835581	1.67336216822492
GTGACTCATAAC	55.5518670811834	1.45924034940149
CCAATGAGTCAG	55.5629621705944	0.673415645396049
CCAATGAGTCAA	55.6139577181115	0.337589912359916
GTGTGACTCAAG	55.9436167595904	0.108392764097281
AGATGACTAATC	56.1049198677637	1.0384768804346
ATGACTCATTTG	56.1421589384219	2.00729052028522
GCATGACTCATC	56.2985300051264	0.546311710217993
ACGGTGACTCAC	56.3278551916144	1.16525191709702
GTGACTCACGGG	56.464122742382	1.2391802251636
TCATGACTAATA	56.478266838484	1.31595582398363
GCTGAGTCATCT	56.8768184363742	0.831278485135982
CGTATTGACTCA	57.1468732389636	0.188646341504701
GCGGTGACTCAC	57.1754576888499	0.945676575791832
ATAATTGACTCA	57.1961357542372	0.533288130733728
TTTGTGACTCAG	57.2515770894969	0.832294056759898
TGTGACTCACGG	57.4163285332504	1.65233431547897
CTGTGACTCAGG	57.4810724646026	0.714701995602032
GAGTGACTCATA	57.580294970102	1.52180000729235
GAATGAGTCAAG	57.6910992130807	0.564790729233054
ATGACTAATCTC	57.7112941550816	1.6365089937471
GGTATGACTCAA	57.7359316036797	1.64755594450018
TCAATGAGTCAA	58.5515386895385	0.454689383391583

CTTATGAGTCAA	58.6716200094395	1.61050220935998
TGTGACTCAGGA	58.7884193351816	0.423937431142218
TCATGACTCACG	59.0847728982121	1.63614542416291
TATGAGTCAGCG	59.1502239777675	1.30303569107355
AATGAGTCAGGG	59.204910840101	1.58280600177024
TAGTTTGACTCA	59.2317246457041	0.211574662411777
GTGATGAGTCAA	59.3724898949172	1.60140308294404
ATGTGACTCAGC	59.5198050751551	1.0615912814619
ATGACTAATACC	59.5234910657373	1.51095952674268
CTATGACTCACC	59.6220843247478	1.64087219477696
GGAGTGACTAAT	59.9198577364336	0.258510779383344
AGTGACTAATGA	59.9231249702495	0.654933035214471
TATGACTCACCC	59.9452828136208	1.69465049549522
GTGACTCATATA	60.0164569013693	1.20153607120744
ACAATGACTAAT	60.0204748315714	1.31118362058197
CGGTATGAGTCA	60.101609299693	1.28669071474428
GTAATGAGTCAA	60.3788839208523	1.43886704612976
ATATGACTAATA	60.4406929588222	1.43837195533653
TTGTGACTCAGG	60.5596344494919	0.668156280878847
AGGGTGACTCAC	60.681769791498	1.63925055638635
GAATGAGTCAGG	60.6844559961513	1.00058733388059
GATGACTAATAA	60.7856907587794	1.40897662627806
GCTTATGAGTCA	60.7994559631565	1.30430127225143
ATGACTCATAGC	60.8096759905988	0.917963484774368
TGAGTCATCGAG	60.8312432120766	1.67279596106447
GTCATTGACTCA	60.837683504589	0.283622453362461
ATGACTAATCTT	60.8648343304457	1.66014186152177
ATATTTGACTCA	60.9324678315977	0.753406834203097
AGTGACTCACCT	60.9358612983528	1.24308020283702
TTATGAGTCAGG	60.9569914162704	1.24618071740707
TCCATGACTCAT	60.9755609024972	1.59495671151364
TGGTGACTCACT	61.0017632523733	1.09000953365025
TATGAGTCAAGT	61.0541538407523	0.48500430371464
ACATGACTCACT	61.0691044884269	1.62361781901964
AGTGACTCACGT	61.4880337901472	0.762891431380944
AACATGACTAAT	61.5816644986471	1.39364623777833
GTAATGACTAAT	61.7489364141358	0.99703947520133
GTGTGACTCACT	62.1030242210807	0.91613541758732
TCTGTGACTCAA	62.139719220047	0.702844159643189
GCCGTGACTCAC	62.1729975648672	0.253375706035971
GAAGTGACTAAT	62.7271837514236	0.332175030558831
ATTATTGACTCA	62.9147952498964	0.786690339735864
CGATGAGTCAAA	62.9322048340819	0.819178161767435
AGTATTGACTCA	62.9887094133481	0.289148172951301
ATCTTTGACTCA	63.0291075315619	0.417505304187222
TAATGAGTCAAG	63.167033104876	0.680175001113205
TCTATGAGTCAA	63.5490121560014	1.59525303271458
GGATGTGACTCA	63.6445788242897	0.879400545349569
CAGTGACTAATC	63.6898189741372	1.39543976964066
CAAGTGACTAAT	63.7640684636206	0.395432435517915
CAATGACTCACC	63.7813104411556	0.765222372668358
TATATTGACTCA	63.8925231105761	0.662054480433384
AACCTTTGACTCA	63.9703124266524	0.473814327054757
TGAGTCAATGAA	63.9794931574184	0.526990451125043

ACAGTGACTCAT	64.0037797220504	1.96420760469512
GACTTTGACTCA	64.0256218167798	0.422232797177864
ATGACTAATGGC	64.2378947675912	0.284326379893109
GGGTATGAGTCA	64.3770948265018	1.01969710222246
CGTGACTCACTT	64.6759893448889	0.816875921898052
TGTGACTCAAGG	64.6954781277418	0.63613973582421
CTGAGTCATCAA	64.730541111946	1.57596938280407
CATGACTAATGG	64.749063500291	0.424508079363887
CATGACTAATAG	64.8318924827521	0.585433388607423
ATGTGACTCAAG	64.8458735293082	0.442747282492988
GACTGAGTCATC	64.989539799913	1.62773035077982
ATGTTTGACTCA	65.0093503248911	0.410653017395123
GTATGACTCAGG	65.0289564723691	0.811951093505576
TATGAGTCAGCA	65.2618797669342	1.52445482373741
GTGACTCACTTC	65.4738042819343	1.39660167677333
TCGGTGACTCAC	65.5205011628998	1.47196132481299
AGCTATGAGTCA	65.6494905056329	1.81211482184475
GATGACTAATTT	65.6683959566811	1.61833830112137
TCCATTGACTCA	65.6994900566663	0.179748270959726
CCTATTGACTCA	65.8714203118712	0.092882709598941
CGTGTGACTCAT	66.2052167948457	1.44024303343964
ATGACTAATTTT	66.2125304044226	0.405434449984034
ATGTATGACTCA	66.2201775824785	1.08648709785682
AGTTGAGTCATC	66.2658020499527	0.854598280241775
TTGGTGACTCAC	66.4713068197121	1.65066271711979
CATTATGACTCA	67.0391611790628	1.60064123957988
TCCGTGACTCAT	67.1666191154013	1.65272283664628
AATGAGTCAGGC	67.2378743516131	1.62080436872568
CCGTGACTCATC	67.2644991672058	1.5128002613658
AGTGTGACTCAG	67.4250544055525	1.37934132193151
ATGACTAATAGC	67.4481183527396	0.8425031924129
TCTGTGACTCAG	67.5418943719858	1.06513162332283
TTATGACTCACT	67.5565284985144	1.84082824353765
TTTGAGTCATCG	67.5758747918016	1.5566847514065
AATATTGACTCA	67.745501864988	0.683589834729907
TGTGACTCAAAG	67.8130533949427	0.815550875286359
TAGTGACTAATG	68.103214572115	0.543959525070555
CGATATGAGTCA	68.1073473115127	1.56828290758377
GGTGTGACTCAA	68.1800535001881	0.784970961748816
TACATTGACTCA	68.4668955982146	0.635884551362839
ATGACTAATAGA	68.4812827618779	0.82640552973
GGTATGAGTCAG	68.7158623563188	0.975522746840283
TAGTGACTAATA	68.7510389603342	0.525839573416753
ATGACTAATGAC	68.9152330174403	0.333662998565026
AGTGACTCATCA	69.1940184229777	1.38504226471534
CGATTTGACTCA	69.4855467134074	0.361268842251169
TTGTGACTCACT	69.6158074049143	1.49300902813476
TACATGACTAAT	69.7212489548386	0.486759396057561
CCATGACTCATC	69.7650047485287	0.844543471872081
ATGACTAATGTC	69.8191751463256	0.351819250684837
TGGATGACTAAT	70.0245634327796	1.07814464027123
GGTATGACTCAT	70.0588066377075	2.00461874583319
CTCATTGACTCA	70.0754174049798	0.380164641989115
GTTATTGACTCA	70.1163672371335	0.20252317902925

ACCTTTGACTCA	70.3231349805762	0.27057449839398
CAGAATGAGTCA	70.5481835910689	1.56409834717878
ATCATTGACTCA	70.6070104998932	0.272729195707327
CTAATTGACTCA	70.6469028049776	0.405287108940681
GGTGACTCACTC	70.7631784431978	1.73158223850288
TATGTGACTCAG	70.776457735367	1.59017799406483
TGTATGAGTCAA	70.8350176044011	1.22826441642997
CATGACTCACCC	70.8546203874661	0.45453967692128
TTTATGACTCAC	70.9037063135802	1.90294832888524
AATGACTAATCT	70.9424689319042	1.0496279703386
GCCTGTGACTCA	71.1728425147764	0.343357989894076
GCCGTGACTCAT	71.207307621183	1.31078963635265
TATGACTCAGGT	71.3492514996199	1.52661868916644
CTGAGTCATCCG	71.5818515000115	1.61513587480275
GTATGAGTCAGG	71.6375244912274	1.53921372779669
GTGACTCATAAA	71.6550260461405	2.41099702847649
TAATGACTAATC	71.8172408738927	1.53258679477182
AATGAGTCAGCA	71.9439306029905	1.53169059821244
TGAATTGACTCA	71.9698848747908	0.434619204217859
AATCATTAGTCA	72.1369027264183	0.457299909294524
GTATGACTAATG	72.2951247874854	1.53111498574332
ATGACTAATGCG	72.3044926546536	1.54223203394529
AATGTGACTCAG	72.3089112899443	1.1777933783945
ACTATGAGTCAG	72.4509545870821	1.53184804874308
GCAATTGACTCA	72.4709660333766	0.316204177098209
AATGACTAATGA	72.5542761901835	1.4912160165143
CTGTGACTCAAG	72.7601772287596	0.0812174540738487
AATGACTACCA	72.7622502569678	1.66081303713773
GTGACTCATCCC	72.8221482358149	0.560614306527444
CTCGTGACTCAT	72.9950000445486	1.2735999950361
ACAGTGACTAAT	73.1042544610636	0.47886666295871
GGTGACTCACTT	73.2235301740746	1.80406968013275
ATGACTAATGGG	73.5185516776859	0.818139878327046
GCGCATTAGTCA	73.821072951895	0.217082102943568
CTGTGACTCACT	73.8621837880161	1.54630894523972
AAGTGACTAATG	74.0448537000925	0.215116136126271
TGAGTCAAATAA	74.0554686554884	0.955154332363225
ACGCATTAGTCA	74.2530161457507	0.405006841305065
TGTGACTCAAAC	74.3049860516448	1.46453122729444
GATGAGTCAGGC	74.4159647725211	1.46641634347124
TCTTTTGACTCA	74.4360397719164	0.252678757579746
ATGACTCACAC	74.4647281608014	1.1289639142871
ACTTTTGACTCA	74.5885217968586	0.285658842903729
TTGTGACTCACC	74.6194418393296	1.44830597716723
GATGACTCATCA	74.7408567449073	1.58190984352212
ACAATTGACTCA	74.9714948670382	0.168581185313373
GTGACTCATGAG	74.9814808659477	0.71144293389992
AACTCTTAGTCA	75.1150446064184	0.527643075467189
ATGACTAATCCG	75.2041862252971	1.29799368934662
GACATGACTCAT	75.2305839502718	1.31961574474936
AGCGTGACTCAC	75.2466204347852	1.50911025510124
CTGTTTGACTCA	75.7094515578806	0.584676580618536
TTGTGACTCACG	76.3366845677424	1.48414177843337
AATGAGTCAAGA	76.4107277329565	1.45591726941402

CATGTGACTCAA	76.4421812220315	1.09487072849135
TACCATTAGTCA	76.4554983241944	0.539068549479474
TCACTTGACTCA	76.5914197916449	0.511378487196255
CTATGACTCAAC	76.7217770291838	1.16086242261421
AATGACTCATGA	77.1078835496927	2.34034731438634
ATGACTCATGAG	77.1561848845497	2.15643707593743
TCATGACTAATG	77.3056222800874	1.48970137079363
ACCATTGACTCA	77.7711146741453	0.716203456434151
TTGATGAGTCAA	77.8430262455909	0.859706522631158
ATGACTAATGCC	77.978497994349	1.48351238780682
TATGAGTCAATC	78.068705809116	1.18357451812114
CATGACTCACTA	78.0785827677412	1.70140074748673
ACTCTTGACTCA	78.142874689726	0.2650290481502
ATGACTCACAGA	78.2054000542976	1.43308744904013
ATGACTAATGAT	78.293245867467	0.47012859886364
AATGACTCACGA	78.8649409379646	1.50297085042552
GTGACTCACACT	78.9282542675186	1.71872151990343
TGTGACTCACTA	79.0121557009231	0.813423117436363
CCCATTGACTCA	79.0970302063509	0.184809630424327
TGAGTCAATTAA	79.5144549179204	0.666710627185963
CACTTTGACTCA	79.5188935056931	0.459343538804537
GCATATGACTCA	79.5586681015315	1.64703932493589
TAATGACTCATG	79.5825936623668	1.32011010832227
AACTGTGACTCA	79.6728819584722	1.49888864180666
TAGTGACTCACT	79.9553154985789	1.51901565874889
AATGACTCACGG	80.1914103471562	1.84316605125444
TCTATTGACTCA	80.2768486070168	0.245418156557682
CTATGACTAATA	80.8409939443094	1.7631549074356
GATGACTAATGC	81.1026171633298	1.87883376917243
AGATATGAGTCA	81.1341628491865	1.28743371802829
GTATTTGACTCA	81.4109638083594	0.514963367603187
CACATTGACTCA	81.6195570433728	0.505717990890422
CAACTTGACTCA	81.6531260401468	0.819099440502784
TGTGTGACTCAG	81.855458129534	1.44503722938983
TCATTTGACTCA	81.9099961205151	0.23559481928211
CTCTTTGACTCA	82.2328539977563	0.436180209559602
ATCATGACTAAT	82.2564815622131	1.47310181883008
TATGTGACTCAC	82.477562435711	2.09677479155265
CAAATTGACTCA	82.6278975593709	0.398000171968349
ATATGACTCAAT	82.7747483787175	1.89191221927958
TAAATTGACTCA	83.1900559405352	0.402621229202654
GCGTGTGACTCA	83.190176618909	0.729051983265137
CGATGAGTCAGG	83.2196898594447	1.40423276193753
TCCTTTGACTCA	83.3995064905336	0.408737705464718
CCTATGAGTCAG	83.4920958214851	1.40592867975142
TAGATGACTAAT	83.6842803752838	1.26685105352269
TACTTTGACTCA	83.764951928236	0.285592899404394
CTTGAGTCATCG	83.8188176411824	1.01422913160009
ATTCATTAGTCA	83.8363329407742	0.690880836152915
CGTTGAGTCATC	84.0036223415781	1.97483839672785
TCAATTGACTCA	84.0532325748267	0.44436005184725
ATACTTGACTCA	84.0581967880027	0.211998213108015
CCTTTTGACTCA	84.1109525633221	0.216722722500595
TGTGACTCAAAA	84.2405936087583	0.962528778893093

GTGACTCACCTG	84.6571935895242	2.26366069975192
CCCTTTGACTCA	85.3249209338334	0.258951802241677
TGACTAATGGAA	85.4442399998978	0.667316046931854
GTGACTCATGTG	85.6341748654634	1.45907463970917
ATGACTCACGAT	85.904766528583	1.66577862988697
CTTATTGACTCA	85.9372598464265	0.562695441398573
TGAGTCAATAAA	85.9677543215619	0.74434738752607
ATGACTAATGTT	86.2555154517756	0.613696170168714
TCCATGACTCAC	86.3993328019185	1.81554236886593
GTGACTCACACA	86.4813396229932	1.46806097765353
ATGACTAATCCT	86.5605424668092	1.6122812185105
CGCTTTGACTCA	86.7354479768678	0.319244803095211
CAGCTTGACTCA	86.8001105083127	0.196997688813228
CCAATTGACTCA	87.0075060345641	0.377061998050331
GGTATGACTAAT	87.4106737946011	1.28895408168229
CCACTTGAGTCA	87.7153933667772	0.31986927571787
AAATGACTAATT	87.7410607809392	0.948753873660417
TAGTGACTCACC	87.9972301305321	1.4564727763222
GCCATGACTAAT	88.342265368443	0.940402750774607
ACAGTGACTCAC	88.3898263458482	1.95203262575231
GTTGTGACTCAG	88.5305127818983	1.32091861954052
AATGAGTCAAGG	88.6063302874034	1.40239530837026
CAATGACTAATT	88.6858786171068	2.05934333641856
TATGAGTCAAAC	88.7020648679571	1.48918775258132
CCATTTGACTCA	88.7801890462323	0.404552346764069
CGACTTGACTCA	88.8950337195256	0.537286019441731
ATGTGACTCACT	88.9616577433804	1.28377547527288
TAGTGACTCACG	89.0980971420046	0.703014693213058
ACTGAAGAGTCA	89.2388638746401	0.743360168159474
GTGACTCACAGG	89.5857196286646	1.90987636038389
GTATGACTCATG	89.7935663135089	2.20252450198876
CAGGTGACTCAC	89.9922311242037	1.5626777206936
TGTGACTCAGGG	90.2213965499793	0.650627756660744
CTTGTGACTCAA	90.2344146619458	0.668931209019839
ATGCTTGACTCA	90.487017152236	0.556861205573997
CGTGACTCACTA	90.5195769819782	1.69951420710873
TATCTTGACTCA	90.5240033286287	0.365117464667685
CTGCTTGACTCA	90.7656316421688	0.28826709742333
GGTATGAGTCAA	90.9146166661451	1.16020022358518
AGTTTTGACTCA	91.1946843587184	0.406086790322499
TGACTAATGAAA	91.3177985267868	0.407880775309871
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TGAGTCAAGAAA	91.5159469227304	0.56507894324508
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TGACTTGACTCA	91.7232820126485	0.377735107401642
GACATTGACTCA	91.7253835699228	1.41362712355551
GATTTTGACTCA	91.8841911932336	0.5640443200127
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TGAGTCAAGCAA	92.0602917161588	0.521624763609784
TGAGTCAAAGAA	92.1069393003054	0.620142288734545
TGAGTCAATACA	92.4126375666958	1.0014460727075
CCATGACTCATA	92.467972676458	1.59876483484131
TATGTGACTCAT	92.8235599094693	1.44935387523434

GATCTTGACTCA	92.985423912934	0.337406971406715
ATGACTAATGCA	93.010871587411	1.59088250695672
ATGACTCACATC	93.1706364693541	2.21575562147445
CACATGACTAAT	93.3538976136057	1.39741998272786
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GCCATTGACTCA	93.59209577994	0.57013385437552
CTATTTGACTCA	93.6613763711403	0.345875879989588
CTATGAGTCAGC	93.8850058604399	1.54096103788648
ATAACTTAGTCA	93.9570302360392	0.628541976175573
ACGTTTGACTCA	93.9917434814712	0.408076760199819
CATGACTAATGA	94.0049281336385	1.3518427242859
ATACATTAGTCA	94.1055470740411	0.62168127609458
CGACATTAGTCA	94.292866645079	0.73236929382033
GGCATTGACTCA	94.4144306082242	1.00858989051234
CGTGTGACTCAA	94.5919466356935	1.4178495627305
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GTGACTCACGCG	94.8004066288252	1.54911687416141
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AATTTTGACTCA	95.6625343190689	0.53002309633281
TGAGTCAAACA	95.9372363252879	0.621994141610046
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CATCTTGACTCA	96.100191110283	0.561980516521891
ACGCTTTAGTCA	96.2732582436263	0.944146425255147
TAACTTGACTCA	96.5290247649323	0.503328786845826
GGTTTTGACTCA	96.8295389352529	0.982066405348966
CGGGTGACTCAT	96.8813631848747	1.5988315484698
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TGACTCAAGGAA	97.482042572476	0.509063686849679
CTTCTTGAGTCA	98.004847468101	0.316419511309351
ATTGAAGAGTCA	98.2428509379222	0.334027899382589
ACATCTTAGTCA	98.5250889307453	0.353485668579803
GCTCATTAGTCA	98.7768324682199	0.458964288257694
CGAATTGACTCA	98.7858003439597	0.635040625495764
TGAGTCAAGTAA	98.8665906151312	0.435734344653681
CAATTTGACTCA	98.9294268232363	0.531517914033673
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GTAATTGACTCA	99.1876205379241	0.494536869283676
GATATGACTAAT	99.388489953615	1.35747009582383
CATGACTACCA	99.4397824931364	1.55569529998459
TGACGTGTTTAA	99.5478231617895	0.488346357717348
CAATGACTAATG	99.7239207674924	1.38888632840419
CTCCTTGAGTCA	99.9672602497312	0.313907727841245
TACTCTTAGTCA	100.28149352468	0.326379820595383
ATGACTCATCCA	100.302424122305	1.43024564244643
CTATGAGTCATA	100.314707401341	1.36117496455948
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CGTTTTGACTCA	100.95664838518	0.345037090461834
ACTCATTAGTCA	101.045250701415	0.625203120997715
AGTGAAGAGTCA	101.090836682244	0.175665468746765
CTAATGAGTCAA	101.216966223305	1.41240774618354
GATGAGTCAGCC	101.416618348795	1.79372649201084
ACCCTTGACTCA	101.849351276912	0.268228090863978
GTGACTCATCGC	101.898463342083	1.43592031352751

GTCATCGATGAC	102.392048056899	0.556878679687567
TATGAAGAGTCA	102.408231735069	0.240911653853051
GGTCATTAGTCA	102.452968282002	0.770822818884975
AAAGAAGAGTCA	102.576647673282	0.29096767235982
ATGACTAATGAA	102.628894528867	1.01485401427701
TGTGACTCACTT	102.655173060662	1.47874451514368
CCGCTTGACTCA	102.880688580661	0.480747037934132
TCTCTTGACTCA	102.894454859032	0.332088195835743
TGACTCTTCGCA	102.917253117511	0.195302428088554
CAGTTTGACTCA	102.963861001554	1.28789514854049
TTGATGACTAAT	103.028016490929	2.11320191417668
AAACGTTAGTCA	103.037598572481	0.507355606709585
TGAGTCATCCCG	103.261360072428	1.2009841857278
AGAATTGACTCA	103.401651159382	0.607565828278998
TGACTAAGAGCA	103.520031983682	0.333379860701112
GTACATTAGTCA	103.598172661428	0.370435679813906
TGACTCAAGGCA	104.064819132253	0.771167713273241
TCCGAAGAGTCA	104.116245212425	0.320778055294488
ACCCATTAGTCA	104.202734894471	0.465208500032524
TGACTGATGTAA	104.693583754961	0.946647926844123
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TGAGTCAAAGCA	104.918665193935	0.45137741992747
TAAATTAGTCA	105.010576927328	0.711962631864142
TGATGAGTCAGC	105.088039667594	0.833954134475555
ATCCTTGACTCA	105.40474843147	0.294156413203154
GAACATTAGTCA	105.535527468747	0.405767857448118
GCTTTTGACTCA	105.600803491511	0.390425624930481
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TGAATGACTAAT	105.965588341695	2.05541466266053
ACTCTTGAGTCA	105.971280030201	0.495517847611769
CAGTCTTAGTCA	106.11026630851	0.704254889757078
TGAGTCAAGGAA	106.331241159976	0.376077999143579
TGAGTCATCCCC	106.471732634351	1.44580724314006
TCCCATTAGTCA	106.493068976604	0.282940131026708
ATAGAAGAGTCA	106.554271658421	0.336211676974527
CACCATTAGTCA	106.597976854713	0.742584739756168
CTCACTTAGTCA	106.680103429509	0.615413558891319
CAGCATTAGTCA	106.698870724647	0.414726143742254
GAATTTGACTCA	106.711095252031	0.44874293269017
ACATGACTCACC	106.733716312412	1.34179529853728
ATCCTTGAGTCA	106.979509209114	0.347209130158169
CGTGTGACTCAG	107.631817897806	1.46383650322816
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CTATGAGTCAAG	108.208729602991	1.35801659232283
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CTGCATTAGTCA	108.565712410161	0.509471053826545
CTTGAAGAGTCA	109.291787278537	0.399880086777173
AAGCTTGAGTCA	109.503860228962	0.170061033200498
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TGACATCAGTCA	109.550459464934	0.788452626335164
ACCTCTTAGTCA	109.644947135877	0.45266512577146
TGACTCTTCGAA	109.823238669383	0.480371347370941
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AGCTCTTAGTCA	110.057945639973	0.509424512722694
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CTACTTGAGTCA	110.462836550136	0.566517851274886
GATATTGACTCA	110.567631208537	0.591589361548346
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CATATTGACTCA	110.847731264039	0.395635370147416
GATGAAGAGTCA	110.858255317108	0.255992588592695
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TGAGTCAAACCA	111.005460065536	0.890859902940594
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TACACTTAGTCA	111.123461047206	0.558702264922317
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ATGACTAATAAAA	112.17038582545	1.64034018724275
CATGAAGAGTCA	112.262476370601	0.438251838319358
ATTTCTTAGTCA	112.278764906962	0.631043168467312
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AGTGACTAATGC	113.792566099858	0.358989229575341
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GGGCATTAGTCA	114.129873028162	0.487346854972926
CGCCTTGAGTCA	114.369071793831	0.426259020099924
CAATCTTAGTCA	114.386583964916	0.266186177943746
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ATCCATTAGTCA	115.402871686347	0.461219884931991
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AGTTATGAGTCA	115.874894421094	1.47180398213615
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TACCTTGAGTCA	115.916861927198	0.454650128647044
GCAACTTAGTCA	116.051061245704	0.452733139436926
GCGCTTGACTCA	116.152767037279	0.710879849294956
TGACTCAAGTAA	116.224949680646	0.181743369042127
CTCATGACTAAT	116.338919172181	1.5239375618769
ATACTTGAGTCA	116.39587406497	0.205927622533556
CTGACTTAGTCA	116.47883539541	0.829991841355187
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GTACTIONGACTCA	116.722742995636	0.841131871848096
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GCTGAAGAGTCA	116.913169337695	0.170090124427057
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AAACTTGACTCA	123.849212085591	0.367636915052871
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ACATATGACTCA	129.248600015628	0.431107252246244
TCACGTTAGTCA	129.300974175386	1.09952543397901
ACCCTTGAGTCA	129.390507930055	0.633140867783259
GTGCATTAGTCA	129.516515269828	0.53537601462462
ATCTCTTAGTCA	129.589366776999	0.476078200834292
TCGGAAGAGTCA	129.795661227348	0.445206727265403
GCACGTTAGTCA	129.840373913632	0.614353617331837
TCGTTTGACTCA	130.131857859613	0.524300975008344
ATCGAAGAGTCA	130.199215256961	0.419465081241762
TAAGAAGAGTCA	130.222909261687	0.423096245278331
GTTGAAGAGTCA	130.240394522535	0.311790844955419
GTACTTGAGTCA	130.32348436189	0.769668552702916
ACACATTAGTCA	131.012049010942	1.017356314444039
TCAATGACTAAT	131.186083521864	1.96455511312695
GCGTTTGACTCA	131.355882362607	0.962557596995713
TGACTAACGTAA	131.453104764585	1.04178684373921
CACCTTGACTCA	131.74276964165	0.428747430486772
TGAGTCAAGGCA	131.75166837864	0.649871533237705

TGACGTTAGTCA	131.794617042326	0.442452679612623
TAGGAAGAGTCA	131.993451874652	0.273924703642814
AATTCTTAGTCA	132.104244134448	0.831528618489067
GTGAACACGTCA	132.182775855153	0.580700048021552
AAACATTAGTCA	132.525628555001	0.870187199465765
TAATTTGACTCA	133.179895900105	0.627019620297432
GCTGCTTAGTCA	133.487263142112	0.615144631418853
ATTCTTGACTCA	133.541286975205	0.569777959257689
TCGTACACGTCA	133.818167642387	0.548121647226046
GCACTTGACTCA	134.164419539832	0.392095160430811
TCGTCTTAGTCA	134.231262045258	0.843254154000368
GCCCTTGACTCA	134.237942917735	0.484206354851906
TGACTAATGACA	134.415177008059	0.5606195061179
CCATGACTCATG	134.538257400297	1.58337140407237
TAGCGTTAGTCA	134.552795348614	0.830334477514411
TAGCATCAGTCA	134.71340404376	0.563390682541758
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TCTATGACTCAG	134.79926468773	1.2905749762579
CTTCATTAGTCA	135.047833309895	1.02361146243402
GTGGAAGAGTCA	135.436131129307	0.272529428270924
TCTGAAGAGTCA	135.470863993955	0.586205907579719
CACACTTAGTCA	135.70733711697	0.577983854915386
GTCACCTATGAC	136.26347954508	0.531324003644089
GAGCATTAGTCA	136.332381410646	0.529509506776801
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CGTCATTAGTCA	136.447546724814	0.815310139322159
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GGCCTTGAGTCA	137.444340716081	0.852977077557624
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CGATGACTAATG	137.608240873268	1.32025311343873
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CGCACTTAGTCA	137.94361686288	0.623538513284932
GATGACTAATCA	138.040573714024	1.49858422886608
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AACGAAGAGTCA	138.400595654805	0.53084956512159
GTCACCTTAGTCA	138.857748234172	0.205634370161588
TGACTAAAGCCA	138.887506988476	0.286491888697986
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CCTGAAGAGTCA	139.05574669169	0.660892844487583
GAACCTTGAGTCA	139.155705795149	0.530335924698901
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GACGAAGAGTCA	139.767195060461	0.325302630244663
CGTCATGATGAC	139.848416176888	0.479667259546794
TAGACTTAGTCA	140.611689324151	0.503847718736674
TGACTAAGTTAA	140.800170221147	1.03978562935377
AGATCTTAGTCA	140.820375886379	0.570711489561817

CCAATGACTAAT	140.833045233775	1.82158407266933
TAAACTTAGTCA	140.981648053335	0.736771611320053
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AAATGACTCACC	141.826242002751	1.45361276290986
ACGGAAGAGTCA	141.96099857864	0.227791048062768
AGGCTTGAGTCA	142.034292570717	0.276143902771207
CTCTCTTAGTCA	142.80818136507	0.263616167919846
ACTACTTAGTCA	142.836195768288	0.213015130220688
TGACTCGAGTCA	142.930740503605	1.22401851964312
GAACTTGACTCA	143.094022805625	0.91853432468066
AAAACCTTAGTCA	143.853356525156	0.422222018110269
CGGGAAGAGTCA	143.890376546644	0.345349885548006
CAAGAAGAGTCA	143.921951443535	0.505641723915656
GTCATACCATGA	143.987440754664	0.352444271995288
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CGTACTTAGTCA	145.39609290115	0.51530615282777
CATGACTCACGG	145.569812820141	1.58910988285977
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CATGCTTAGTCA	145.911441870507	0.214499030445371
ATATCTTAGTCA	146.127250268636	0.516858596040617
CGAGAAGAGTCA	146.186766774595	0.495217239312746
GTCACGGATGAC	146.357819479438	0.229825086530565
CTTAACACGTCA	146.512129735528	0.313811431691524
GCTTCTTAGTCA	146.970321522717	0.574890954794584
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TCTCTTGAGTCA	147.332348954449	0.949416766793859
GAAGAAGAGTCA	147.93123649336	0.312243354288532
TGACTAAGAGAA	148.200156725215	0.517790251130128
CGTCACGATGAC	148.660762256075	1.14314610278746
GAATGACTAATT	148.74419626425	1.41518757029081
CAGCTTGAGTCA	148.773084128332	0.490368709089264
CGCCTTGACTCA	148.82856397944	0.933077849225394
GGTGAAGAGTCA	148.856954095888	0.441856430472632
GACTCTTAGTCA	149.003078117746	0.613861420827101
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CAATGACTCACT	149.942519308904	1.92729729219327
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ACGAACACGTCA	150.100697125703	0.533540565426312
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AAACTTGAGTCA	151.500903409223	0.291941333210639
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CCCACTTAGTCA	152.025683540246	0.254298655539554
CTTGCTTAGTCA	152.150900300586	0.486125820412284
TGACTAATGCAA	152.235348440708	1.27147460621229
GCCACTTAGTCA	152.366922229636	0.743166802506933
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AGCCGTTAGTCA	152.944645192969	0.400462347806957
AGATTTGACTCA	153.106973165289	0.751897849567035
AGAACTTAGTCA	153.11987697188	0.473761424368212
CTAATGACTAAT	153.316386897345	1.86160484484668
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TGACGTGTTCAA	156.185252693144	0.797373563967127
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TGAGTCAAATCA	172.241977407559	0.568935243108599

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ACTGCTTAGTCA	182.53373321579	0.426982422667471
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GTGACTCGGAGA	183.955500036039	0.398105180256402
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TGACTGATGGAA	184.512081961745	0.355889548770468
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ATTACTGCGTCA	185.478475351125	0.856528360197433
CACATCGATGAC	185.604142267124	1.12215857251627
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ATTGCTTAGTCA	187.139914466071	0.70028560034014
TGACTAAGCGAA	187.155682075179	0.372490729272696
ACCGCTTAGTCA	187.210830735638	0.437271145318385
GTACGTTAGTCA	187.623306201735	0.546368528481222
TGACGCAGCGAA	187.797056437724	0.559127798886114
CGAACTTAGTCA	187.882077803716	0.801949252004212
ATATGAGTCAGT	187.919291661608	2.03046575987958
GAGTGACTCACG	188.1895373338	2.0110979753687
ATAAACACGTCA	188.364997619464	0.501864073121878
TGATTCATGGCA	188.390823686471	0.855869101688643
GTCATAATGTCA	188.4267989113	0.822536925230361
AGTCCTTAGTCA	188.499614096305	0.669511551156044
TGACTAAGTGAA	188.631531060386	0.658586944689784
ACAACCTAGTCA	188.742667251039	0.690023665102471
TCGCATCAGTCA	189.206503592749	0.826164245455053
CGGCATTAGTCA	189.224223123824	0.789981831057019
CGTAACTATGAC	189.238216613123	0.701692932231487
GATACTTATGAC	189.267327240191	0.599658533789207
ATGAGTAAACGA	189.688150164259	0.334064222345949

ATGTGTCAACAA	189.786270252337	0.493500185228625
AGTCTTGACTCA	189.925151080627	0.643951434860792
ATTACTCAATGA	189.987349638737	0.585397200778628
CATTACGATGAC	190.1119230933	0.730512542071565
CTGTGGTATGAC	190.238744682692	0.307213160840782
AACCGTTAGTCA	190.602474994547	0.870869044086162
TGACTAAGACAA	190.869338134935	0.852627377499294
TGACTGATGGCA	191.179736738865	0.562323689428111
GGACTTGACTCA	191.310703352583	0.931242629000066
CAGTCCACGTCA	191.57525554463	0.698218696670911
ATGAGTAAACAA	191.905855975177	0.583496140820136
AAACATCAGTCA	192.216927562418	0.622347439753958
AAAGTATTAGTC	192.710505997689	1.10543387484038
GTCACCAATGAC	192.730416905854	0.565575758945375
GTGACTCGGAAA	192.731711712497	0.483914937398855
GATTACACGTCA	192.833488469626	0.508962583220857
ATACAAGAGTCA	192.89630814527	0.797069480190532
AACCTTGAGTCA	192.905383031699	1.05537057320501
CCGACTTAGTCA	193.212488681434	0.676558060540585
GTCACAGATGAC	193.435449760385	0.497621050821039
ATGAGTAAACAA	193.48892239541	0.186598888779009
CAACTTGAGTCA	193.56774522898	1.04046488805831
CGGCAAGAGTCA	193.56826095836	0.320449826896829
TGACTAAGGTAA	193.658521690417	0.572813971301029
ACGAATTCGTCA	193.698779670849	0.738715782082606
CGTTTATATGAC	193.878956078206	1.09426103030609
CCGGTTGTGTCA	194.054410081045	0.62022903447008
CATACGTATGAC	194.188456141537	0.328999790372329
AGACCGAGTCAC	194.327814031706	0.277454249639948
ATTAATTATGAC	194.398450625648	0.887116559333947
GTCATAATTACA	194.85027248917	0.271091482090862
CAAACCTTAGTCA	195.179316880484	0.831497890067214
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GTCATAGTTTAA	195.390904900705	0.574828123965623
CCTAACGATGAC	195.652107622762	0.599713395337449
GTCACGTATGAC	195.659658466657	0.314806466174189
TGACTCTTGAA	195.920955776145	0.544698805075882
CGTCCTTAGTCA	195.945471021206	0.57749602304473
TATCAAGAGTCA	196.249851323149	0.388107689410523
GTCATACAATGA	196.290004717354	1.06227825844395
CGTCATCTATGA	196.328552410807	0.496505875396979
CATCATTTATGA	196.357143852132	2.01163256184383
CCATCTTAGTCA	196.528259229107	0.695024758305738
GTCATCGTATGA	197.013325332495	0.862692372409215
ACGTATACGTCA	197.125699350423	0.305210092894455
GGTTCTTAGTCA	197.439229212397	0.685438563527494
GCGCATCAGTCA	197.536352277878	0.307602806900279
AGTCACCTTAGG	197.907024842713	0.802436006292559
AGACATCAGTCA	198.125527791013	0.594981866135979
GTACATCAGTCA	198.29042057128	0.363261923947606
ATGCTTGAGTCA	198.369624259189	0.443701125918577
GTGACTCGCTAA	198.554800072211	0.359400633825212
TAAGCTTAGTCA	198.628382656026	0.936426354093595
GTGACTCGGACA	198.974122961795	0.553989673351068

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GGCACTTAGTCA	199.985799742604	0.70762255904468
AGTCAAGAGTCA	200.086781857742	0.424569087112533
GCAAACATATGAC	200.097633569919	0.607558980597318
TCGCTTTAGTCA	200.305237627208	0.316370992033848
GTTCATTAGTCA	200.488707439278	0.755882709402177
TCGCGTTAGTCA	200.502344381861	0.430719133497189
CAACATTAGTCA	200.523702142808	1.15649138388562
CATCTTTAGTCA	200.547689986697	0.516375278208189
TCACAAGAGTCA	200.82835837217	0.593233437100197
GTCATCCAGTCA	200.83147975746	0.409631897621704
GACCTTGAGTCA	200.938868098251	1.05304597218016
TGACTAAGCTCA	201.04373944727	0.331257287279588
ATATACACGTCA	201.096865582587	0.549644182009389
AGCAACGATGAC	201.117729090295	0.874802341136585
GACTTCGATGAC	201.483851324218	0.599082284548936
GTTTCTTAGTCA	201.501236526805	1.03697495858566
AGTGCAGTCCAC	201.503794482941	0.344239988958091
GCACCTTAGTCA	201.733160482211	0.443405390868881
GTCATAGTCAGA	201.835865817979	0.898857868511715
ACAATCTATGAC	201.975397000369	0.514964910067345
CAGCATCAGTCA	202.056324024283	0.656946600630462
GTCACTCAGTCA	202.156085718529	0.734045983121143
AAGCGTTAGTCA	202.175055986718	0.376744723739608
AGCGCTTAGTCA	202.242043786154	0.660079844654637
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GAGCTTGAGTCA	202.364606170868	0.511058059864794
TGACTAACGCCA	202.453793427927	0.634627362575865
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CAAGACTATGAC	203.112095317425	0.381956643965329
ATCCATCAGTCA	203.147832194597	0.523697018496644
ACTCGTTAGTCA	203.221073398197	0.594042714710523
GGGCATCAGTCA	203.268682066388	0.630590458015626
TATACTTAGTCA	203.376107378757	0.40114956217702
CCGTGACTCACC	203.377392603378	0.841088980798913
TATGAGTCAGTT	204.054370598461	0.401223977658697
GCACTTGAGTCA	204.835450389703	0.754683435059928
TGACGTGTTCCA	204.9002127004	0.80789308226346
GTCATAGACTCA	205.070216657611	0.318350774229012
ATGATACAGTCA	205.183885006129	0.575980001308491
GTTCTTGAGTCA	205.300793401804	0.228571136314441
CAAACCTCAGTCA	205.867167976069	0.728948575531838
ATTACTCAAATG	206.027203222149	0.598731572711195
ATCCAAGAGTCA	206.139719044562	0.68554381016466
ATGTAATATGAC	206.245435891441	0.869322417550844
TGACTCAAGCCA	206.257590933623	0.310991262463083
ATGAGTCGGTCA	206.312096169155	0.551067775172613
CAACATCAGTCA	206.459840754386	0.563760462376421
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ACGTTGACACAT	206.948236750542	0.219602989483967
ATGAGTAAACCA	206.987684335577	0.548768998796174
GCATCCGATGAC	206.989769249876	0.554024431800901
GATACTTAGTCA	207.113643971769	0.836326423918857
ATTTACACGTCA	207.413561816305	0.382062150670858

TCATAACAGTCA	207.451797705929	0.887721719270598
TATCATCAGTCA	207.528533905303	0.487982435775547
AATGACTCACAC	207.57069896138	1.38582883693865
AAGCTTGACTCA	207.707133123755	1.48128742804034
ATTCTTGAGTCA	208.091407339551	0.982978496751682
GTACAAGAGTCA	208.366572789945	0.33321791036543
CCATGACTCACG	208.489116816097	1.92804732769378
GAATCCACGTCA	208.537777363694	0.754772773496898
CGACCGAGTCAC	208.997970514863	0.746510419810358
GTCACCTATGAC	209.040492855472	0.7763844221366
AGTGCTTAGTCA	209.05704904129	0.513425283238978
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GTGACTCGGCAA	209.288272645409	0.649932451570411
GTATGACTTGGA	209.368955426984	0.341282405956255
ATGACTGGGTCG	209.626441317856	0.645876630046365
ACGTCCGAGTCA	210.078237378852	0.614291119347841
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GATCAAGAGTCA	210.246720691296	0.265373648465765
GACGCATGACAC	210.643377467528	0.982837059628992
ATGAATTATGAC	210.659689204447	0.744105292207511
ATCCTAGAGTCA	210.684020198674	0.437216312596692
CTCCATCAGTCA	210.762842371302	0.470734203323664
GTCATCGACAGA	211.08066521053	0.49983884811685
CGGTCTTAGTCA	211.096929252491	1.12495306258236
GAGACTTAGTCA	211.101043118184	0.516302226700982
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ATTACTCAATCG	211.203970794535	0.37796760546821
GACACTTAGTCA	211.256649204389	0.984346667631491
ATTTCCGAGTCA	211.297682589696	0.482417394434974
ATTGCGAGTCAC	211.330416603674	0.658073492541111
GCCCCTTAGTCA	211.443183055273	0.482296306411147
GTTTCATCAGTCA	211.523808568798	0.534071257567829
GGACTTGAGTCA	211.633309313124	0.314519191276214
CGGCTTGACTCA	211.728594960888	0.999958601878433
GTCAAATATGAC	211.815616791556	0.39410996307117
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CATGACGATGAC	211.871367095839	1.07853409441035
ACGGCTTAGTCA	211.917935361409	0.71783241345387
GAACGTTAGTCA	212.262059699681	0.74786300667037
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TACGCTTAGTCA	212.551326363473	0.683591261919438
GTCACAGAGTCA	212.692353703065	0.625336814282651
ATGAGTAAACAG	212.7271148428	0.368970702697111
CAGTGTGACTCA	212.963956023563	0.844639383129817
CTTCGTTAGTCA	213.137228047079	0.656188258156787
ACACAAGAGTCA	213.148636294375	0.508038720318525
CAAAATTATGAC	213.177716464039	0.700912024283893
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GTCGCTTAGTCA	213.793539683837	0.755904157015569
GTCATAATTTGA	213.805319554455	0.662915392813206
GTCATATCGTGA	213.995493537626	0.40006247737852
GTCCTTAGTCA	214.073597660334	0.43777974069909
TCGTCCACGTCA	214.095868723114	0.462669271987818
ACGAACTATGAC	214.3321685267	0.883897895776136

GTCAATTATGAC	214.343549807625	1.06817431238003
ATCCGTTAGTCA	214.518450164786	0.413628686280831
TGACTAAGGCAA	214.813101192781	0.631286281884387
ATGACTAATATT	214.969094406602	1.98609619950455
GTCCTTGAGTCA	215.242230738067	0.955355896784733
AGGCCCAGTCAT	215.24400686636	0.428287088159459
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GAATACACGTCA	215.333527109084	0.895827182133101
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GACCATCAGTCA	215.732078984059	0.615841206460242
GAAGTGTGTAC	216.177682922361	0.448570513059331
GTCATCGACTCA	216.253821168859	0.698162964706758
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CCTCATCAGTCA	216.453933458803	0.35915051192297
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CATCTAGAGTCA	217.009453675821	0.886232323036949
ATGTGTCAACAC	217.135289799635	0.274294734195835
TATCATTAGTCA	217.174874710241	1.07041718034699
CGTAGCTATGAC	217.254307275871	0.949674571104187
AGACCTTAGTCA	217.372849157839	0.836913345493576
GTCATAGCTCGA	218.012037710394	0.495064253793991
ACGCATCAGTCA	218.104478913787	0.349830374808103
AGGCGTTAGTCA	218.130325170839	0.452827118549404
AATCGTTAGTCA	218.148378817346	0.917902389971537
ATGACTCACCCC	218.203082330376	1.41832661684618
ACTGACTATGAC	218.218915331459	0.239529387433704
TAGTGACTCACA	218.362872851441	1.87781611958672
AATCAAGAGTCA	218.36404705623	0.145303705717303
GTCACATGTGAC	218.436396704304	0.892320962014764
GTCATCGTATAA	218.472058119213	0.58330463999018
GAGAACACGTCA	218.531267983056	0.29147392083545
AGTCAGACTCAC	218.643858554893	0.53734553595117
TGACTAAAGAAA	218.704323387384	0.328670547195812
AGTCACCCTGAG	218.816111712264	0.303747167707463
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GTCATACATAAA	219.40571323616	0.70393332521725
CTGACTGCGTCA	219.426715742955	0.307363299008967
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CCAACCTTAGTCA	219.859695319781	0.503365384944387
ATTACTCAACTA	219.89830041383	0.193326104270347
GCGCTGTGTGAC	219.96141892515	2.60882949149833
TGACTAAGGACA	220.081975430908	0.650760587825675
TCTCTTTAGTCA	220.171952980096	0.225537690971454
ACGACGTATGAC	220.349025549506	0.471889414147345
GTCATCGTTTAA	220.392019792765	0.519658896735192
TGACATTAGTCA	220.551826167693	0.920363778893492
GTGCAAGAGTCA	220.755232018708	0.560185576651688
TGACTCCGAAAA	220.86633281685	0.8777984263184
TGACTCTTGCCA	221.682376935569	0.396965464470569
CAGACTTATGAC	221.765037208192	1.2417838118901
GTCATAGTCGAC	221.817815396045	0.495240571953189
TACCAAGAGTCA	222.075532085327	0.919424920337639

CGATACACGTCA	222.097604997429	0.74242940037846
AATCCGAGTCAC	222.197296622029	0.448511411914109
TGACTGAGTACA	222.245399535203	0.61529222256365
CGCTTGAGTCA	222.25493479275	0.638027504940419
CATCAATATGAC	222.375211248767	1.25114323410497
TCATACGTATGA	222.489309277526	1.80331008449818
ATTACTTAGTCA	222.648678035885	0.572990038871929
CCAATGTATGAC	222.800190044803	0.837149630514544
GTGACACAGAAA	222.812431948585	0.22730497941894
AGTCTTGAGTCA	222.841913503545	0.547752248172991
CTGATAGACTCA	222.906493504935	1.19580081257089
TCACTCGAGTCA	222.995571186676	0.739677095941156
ATTCCGAGTCAC	223.091475944276	0.378397039495845
ATGTGTCAACGC	223.094950400156	0.342370188442278
CAACAAGAGTCA	223.137051984791	0.855349544433937
GGTCCGAGTCAC	223.18725038792	0.471955889621677
CAGCGTGCCTCA	223.40786834921	0.883461532353868
GAAACTTAGTCA	223.570908860039	0.867285125105187
ATCAGTTATGAC	223.575771596034	0.959889049075983
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GCCGCTTAGTCA	224.303160887079	0.789676417004991
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GTCATTCTGTGA	224.929804637145	0.841108049492228
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GGTGACTCACGT	225.442408878803	1.59605818172425
ACCGTAGACTCA	225.4624360119	0.740154838187215
CCTAATTATGAC	225.532485038287	0.287060646815763
CCTATGGAGTCA	225.536956054265	1.18039676743011
CGTACCCGGTGA	225.844913726599	1.12377933369856
CTACGTTAGTCA	226.158136216277	0.83633563123846
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CTGGCTTAGTCA	226.711065312067	0.904295297429014
GTCATACATTGA	226.826259768214	0.471565292487265
AATTCGAGTCA	226.836379907022	0.501309718124349
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GAGCATCAGTCA	226.972675468964	0.685464410125774
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GTCATAGTGTC	227.014189558396	0.552857007292928
ATTCCGAGTCA	227.181072200395	1.57274867847858
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GATGACTTGAC	227.387845657737	0.345355090081923
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GTGTCTTAGTCA	227.485758073954	0.444208663591008
CAGAACTATGAC	227.511925650603	0.411328578579668

CACCTTTAGTCA	227.795854183226	0.605129165475989
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CTAGCTTAGTCA	228.119493853459	0.581576954305596
ATGGCGAGTCAC	228.12012458138	0.338542168761351
ACGATGTATGAC	228.125731709796	0.665361399531131
CGAAACACGTCA	228.24391724759	1.11638187111162
CAGCCTGACTGA	228.245250667325	0.705073048778162
CGATGACTTGTC	228.303469865742	0.338714430503359
ATGTGTCAATTG	228.392289154923	0.77883600312596
TACCATCAGTCA	228.541675394056	0.626738144371036
TATTACACGTCA	228.615353367331	0.305288683015791
GGATTTGACTCA	228.727443771089	0.735976742086138
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GTCATAATACTA	228.791055519361	0.658153372088294
CCCCATTAGTCA	228.85324685256	0.817961933758209
CTGCATCAGTCA	228.979945220181	0.429886558326599
CCGAACACGTCA	229.082349047406	0.558871571768794
ATGTACTGACTC	229.167388940504	0.734457764552012
CTTGCGAGTCAC	229.247786203438	0.464690485693603
CGAAACCAGTCA	229.284829800361	0.559448934214592
ATGAGTCGGAAA	229.309703134266	0.377076783719006
AAGCCTTAGTCA	229.390317696317	0.658071469851256
AATCTATATGAC	229.468078250949	1.15158494464819
ATTCATCAGTCA	229.564996455458	0.984663024946921
ATAGCTCAGTCA	229.590719429816	1.11231167290836
GTCTCTTAGTCA	229.862304432129	1.08264852381435
AGCAATTATGAC	229.946422467054	0.422795447477139
GCTACTTAGTCA	229.995250504675	0.238971171627812
TCACTTTAGTCA	230.086016085016	0.476328718237039
GTCATCGCATGA	230.122156955172	1.0413363799824
ATCTCCGAGTCA	230.170444328811	0.713836232076098
CAAGAATTAGTC	230.178043703915	1.20662452614506
CATAAATATGAC	230.406527676812	0.729710854016772
CCGCAAGAGTCA	230.444621574462	0.7404153446453
CGTGATAATGAC	230.558090643001	1.65792780187294
ACCCAAGAGTCA	230.595018661914	0.443046380469315
CACCGTTAGTCA	230.627280122038	0.768295088378991
ATGTGTCAATGA	230.772348107168	0.622332056138634
GTCATCCATGAC	230.847172329416	0.884172003021778
ATGCAAGAGTCA	231.141199120042	0.522935900469865
GTGTTTGACTCA	231.157409116141	1.18530358699241
ATGTGTCAACAT	231.433437038562	0.327424210143585
CATGACTAATCC	231.443173000177	1.19303274807524
ATCGCTTAGTCA	231.45882570914	0.151984640169749
AAAGTTTACTCA	231.472998410375	0.307011533651084
ATGTGTCAATGC	231.492489793932	0.372135046142208
TCCCATCAGTCA	231.537571937123	0.627925109574967
CGGGCTTAGTCA	231.602762102321	0.89947570599393
GTCATAGTTGCA	231.790862499083	0.935749536516024
GCTCATCAGTCA	231.905118272175	0.687630986293532
TCAGTCAGGTAA	232.143739733028	0.516164829188435
ATTACTCAACGG	232.17876716909	0.798246360495008
ACGCTTTAGTCA	232.219555192087	0.362369469322881
ACCGTGAATCA	232.335836623958	0.540983907929436

TGACTCGTGACA	232.405294574454	0.553731357280498
CTGATCCAGTCA	232.461491904055	0.554538741498399
CCTTGTGAATCA	232.477696039129	0.749366805881231
TATGAGTCAAGG	232.534548946473	1.26090597585108
ACGGCTCAGTCA	232.555999672553	0.668981514295422
GTCATAAATGAC	232.598198015127	0.649020313385108
TCAAATTCGTCA	232.766887077719	0.637594789181768
ACTTACACGTCA	232.960442281859	0.546928077458132
GTCATCGCGTCA	232.968223130177	0.310534179306338
TGACTAACGACA	232.984657630206	0.751455069044559
CATCGTGCCTCA	233.019761308258	0.550859713355864
CCTTACACGTCA	233.183273157823	0.53907687799944
ATTCACGAGTCA	233.198522271118	0.372255582321173
AAACCCAGTCAT	233.529659887995	0.121235295471831
GTGACTCGGTCA	233.725640266609	0.985313116976501
ACCGTGGAGTCA	233.876499937263	0.478437397564228
CAATGCTATGAC	233.892734689086	0.332817003974825
TCTTCTTAGTCA	234.055313629573	0.345539803162097
GCGACCGATGAC	234.296734354195	0.416908885554533
GATCCGAGTCAC	234.423798408035	0.589771586413262
CAGCTGTGTAC	234.901990385324	0.314399960959776
GAAGCTTAGTCA	234.93464543741	0.520513886889034
AATTGTGAATCA	235.087541069858	0.735674687643521
TCATACGTAGAA	235.149275525633	1.34513159463488
TGACGAATTTAA	235.449730992959	0.352420117553423
ATAGCTTAGTCA	235.497463601977	0.721346616827354
ATACTTCAGTCA	235.534783763026	0.682062522938531
CGCCGTTAGTCA	235.603526405924	1.11166126404542
CAGCTTTAGTCA	235.763250554699	0.681657378179616
TGACTGGTTTAA	235.920914798607	0.542489176956251
ACCACGTATGAC	236.119608149239	0.614923416988051
AGTCACCTTTTA	236.123050889803	0.182445430266109
CTGCAAGAGTCA	236.157320969604	0.906640895987427
GTCAGGTATGAC	236.166240372801	0.677610947004133
GTGCTTGACTCA	236.209150316977	1.08531527449301
ACCATGTATGAC	236.240970921409	1.07939040243481
AATTACTAGTCA	236.268957864146	0.658786682549636
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TAACAAGAGTCA	236.587606868934	0.335863243570953
GTGTACACGTCA	236.596096176086	0.822250381240296
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CTGAACACGTCA	237.144037299825	0.464208471685171
GAACATCAGTCA	237.194994554786	0.450852099065618
CTTTGTGAATCA	237.26481018993	0.411450526226558
ATCGCTCAGTCA	237.423668869519	0.5893385807542
TGACTGAGCCAA	237.426182567441	0.861445789669939
TATGACTTGTCA	237.520213917212	0.522647644331439
TGACTAAAGGAA	237.610081683491	0.525251319621442
CAGGATACGTCA	237.649934745932	0.665572114587039
AGTAATTATGAC	238.017713048973	0.861846333777405
ATGTGTCAATGG	238.111427573356	0.2530165882662
TGACGTGTAATA	238.178758700615	0.690142961232554

ACGAATTATGAC	238.258195960521	0.54777148962835
GTGACTCGCTTA	238.36253181631	0.472567434113512
AGTCATGGTCAT	238.434699470773	0.322471989024065
GGTTATGAGTCA	238.670538051959	1.30498314508304
ATACCGAGTCAC	238.715297895304	0.530007141631305
GACTAATATGAC	238.844863884418	0.840818049088272
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ACGTAACAGTCA	238.975105312018	0.660545557091784
CAACATTATGAC	239.101903595462	0.782718097369494
ATGACTGGGTAA	239.168734520671	0.535500572001225
GTCATAATCGGA	239.186484467158	0.724557179758661
TAGTCCACGTCA	239.205217862279	0.552697971730066
AACGTTGTGTCA	239.236025567987	0.295592579492562
GTCATAGGTCAC	239.253837647949	0.956531016934364
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CCGGTATATGAC	239.44043425433	0.646572918355417
GTGACTCGCCCA	239.53165285333	0.825499500748045
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TAACCTTAGTCA	239.638260776216	0.687467147512747
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ATGACTAATGTA	239.811695955672	0.894716486996749
CAAGCTTAGTCA	240.068975601689	0.670864071746882
ATGCCTTAGTCA	240.293976661903	0.875604435860849
AGTCACTAGTCA	240.693326462721	0.311900583794622
CCTGCTTAGTCA	240.797153639392	0.642675041629942
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CGTACGGAGTCA	240.938307352391	0.881958813530055
AGTCACCTTTGG	240.970760542867	0.67229714314703
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AGGTACACGTCA	241.015964719235	0.468689702676512
TCTTATAAGTCA	241.028336588942	0.752087932063114
TACCCTTAGTCA	241.100397710817	0.558399290253863
ATCCCTTAGTCA	241.105110735078	0.401695789468299
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CCTAGGTATGAC	241.14173820299	0.58266527359259
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CGCCTTTAGTCA	241.354957346981	0.593516484103324
ATTCATGAATCA	241.369863416796	0.880169832736847
GATGATGTAACC	241.534876963797	0.179567355690362
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GGGCTTGAGTCA	241.812030107219	0.460890998944403
GTCATATCTTGA	241.815231038579	1.12135180019104
TATAACACGTCA	241.864304294402	0.573534219742044
GACGTATATGAC	241.865097112475	0.888442255814824
ATGACTGGGTTC	241.8711892881	0.375402620226813
AGAGCTTAGTCA	241.894658156145	0.526332791809997
GACTCATGGTCA	241.957846643337	0.898594788923361
GTTCTTAGTCA	242.007538517138	0.63267336913649
ACACTGTATGAC	242.2874687647	0.610771846563973
GCCCCTTAGTCA	242.513319559491	0.794295543985778
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CACTATTATGAC	242.608327522484	0.660685457476078

CCGACTCAGTCA	242.704247840916	0.22246472986043
ATGAGCAAATCG	242.782539119543	0.549581603050814
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GTCATACAGTGA	242.935772009929	0.900297356121558
CCTCTGACGTCA	243.031906717941	0.426711523453183
GTCATCGTAATA	243.097322157127	0.665819595557164
ACTGCTCAGTCA	243.186376923536	0.323356059593803
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TCAGCAGAGTCA	243.426221892465	0.93462587245238
TCATCCACGTCA	243.509895335626	0.191667794016727
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CGTCTGGATGAC	243.683246098087	1.01665558217925
GTCATAACTTGA	243.721086261327	1.02509204539795
ATGAGTAAACAT	243.73113118593	0.374410108191653
AGGCTGTGTAC	243.798100969475	0.385365876199537
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TCGGCTTAGTCA	243.972542638372	0.716248939006194
GGTCATCAGTCA	244.072285008084	0.601451672271775
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GTGACTCGGATA	244.328988505014	0.271602370741354
CAGGCTTAGTCA	244.378088951538	0.395277769901553
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CACAGTGAATCA	244.658433856507	1.08444456310939
AGATTGAGTAAT	244.669515634656	0.306737407633251
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CAAATGTATGAC	244.68479852204	0.503113269404523
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GTGGCTTAGTCA	245.553568242266	0.70496670865903
AAAAGTTATGAC	245.583221643404	0.946826811371491
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AAAGCGAGTCAC	245.589126642404	0.265602652392486
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TCCTCGGAGTCA	245.916385273396	0.581241090478324
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CCTTAGTAGTCA	246.179241988615	0.34120623928979
CATCCGAGTCAC	246.182487333806	0.193195342159622
ACGTCACGTCAT	246.223299989821	0.251180118520556
GTCACCGTATGA	246.364668610762	0.622939273175995

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CGTCAAGAGTCA	246.730734809548	0.559274088030511
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AATCTGTATGAC	247.041477774476	0.604646149702803
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TCCCCTTAGTCA	247.41995544524	0.748671150495904
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ACTAATTATGAC	248.214804816038	0.913287296795936
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CAACGGTATGAC	248.300392850279	0.912547605689945
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ACCAGGTATGAC	248.355426346587	0.840072204633971
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CTCGGTGAATCA	248.408852303902	0.656204406538537
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CATCCTTAGTCA	249.332343793759	0.236489651736377
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CATAAGTGAGTC	249.409451043081	1.35399524742997
GTCATCGGAGAA	249.439646257049	0.325491803603683
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CACAATTCGTCA	249.478947646192	0.61410231962719
AGCCAAGTCATA	249.870154381545	0.379845216130323
GTCATAATAAGA	249.952841301853	0.826278056359585
GCGCAAGAGTCA	249.992913505104	0.485263587254154
AGGAACACGTCA	249.997113784524	0.323756479917563
GTGACTCGCCAA	250.00311478716	0.654628418742195
AGGCAAGAGTCA	250.01448249091	0.219467975048856
GTCATAGCGTCA	250.15418686942	0.725404256674518
GACACGTGAGTC	250.179785251215	1.12129596169981
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CGACGTTAGTCA	250.26048028573	1.32343379918248
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CTTCTGACGTCA	253.963343862068	0.716243024282219
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TGACGTTACTCA	254.359646474032	0.402468117009533
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TAGCTTTAGTCA	254.812224118393	0.627349134155651
TGACGAATTCOA	254.864554897997	0.566290203923946
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AGTTACACGTCA	256.11395343281	0.486915898891056
TCTCCTTAGTCA	256.304567916648	0.344501986593603
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ATGACTAGCATG	256.355165314611	0.722731020846511
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ATAATGTATGAC	256.844647295168	0.562930717825855
GTCATACACGGA	256.863929206712	0.223192483441525
CTGAGTCGAAAC	256.924462477491	2.21817050761732
ATGACTGGGTTA	257.025336979682	0.237984934749228
GTCATATTCGAA	257.041230766678	0.329161565629844
GGTCATCATGAC	257.052903845446	0.411187064091771
AATTTTACTCAT	257.054175514161	0.759871171063164
ATGACGTGACCA	257.168109086572	0.658839871456136
ATCGATACGTCA	257.189667181935	0.754248162082277
TGACTCGGAACA	257.286311786081	0.68230770995924
CAATATGATGAC	257.363788272866	0.573805400154645
GCGTACACGTCA	257.399946970833	0.586239325246262
GTCATCGCATT	257.493959551071	0.732895425673283
GTGACACAGACA	257.516307146521	0.705145284445816
AGTCATGGTGAC	257.608933562254	0.597492308938817
TGACTCGAGTAA	257.708103020204	0.556884761111128
GTCACCGAGTCA	257.813053791132	0.598263422196315
ATGTGTCAACTA	257.85772918753	0.354316770059919
ATTACTCAAACG	257.925354571072	0.436850759942134
TCCGATTGGTCA	257.953244844756	0.614322106295283
ATGACTTCGTGA	258.149475707723	1.0892716177644
CTAATGCAGTCA	258.257069470511	0.514263974362781
GTGACTCGGTAA	258.308309562843	0.221704829652882
ATGAGTCGGACC	258.349336198143	0.22492403340727
GTGACTCGCCGA	258.429418505823	0.706412225797469
ATGACAGACTCA	258.593470445654	0.606584201604072
CAATACACGTCA	258.618931046273	0.851894781042358
GAGCAAGAGTCA	258.674294011444	0.453958126768788
GTCATCGGTAAA	258.704898124675	0.209248957525619
ATAGTCAATGAC	258.764901834418	0.674733771273161
AAACTAGAGTCA	258.914018930208	1.09196758385886
GGACCGAGTCAC	259.055445539194	0.817303798285132
ATGCATCAGTCA	259.324936187097	0.499203198101098
ATATATACGTCA	259.433392598952	0.510229050918333
CTCAATACGTCA	259.600639914672	0.350479677551069

AGTCCGACTCAT	259.677763330531	0.600961147351289
GATTCATATGAC	259.811736698381	0.261417097479658
CTAAATACGTCA	259.823669254921	0.60699798243089
GTCATATTACAA	260.020225684212	1.12913469335664
CCACATCAGTCA	260.186699246647	0.462531795022314
CCATTGTAGTCA	260.291923362842	0.638197886850832
CGTCATCAGTAA	260.320918627155	1.14475750153096
ATGCATTAGTCA	260.384111236178	0.718904124819757
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ATCCATGAATCA	260.435589954599	0.878485438511945
GTCATCGATACA	260.444788708189	0.836866728046771
ATGAGTAAACAC	260.48971990355	0.54897712526911
CTCGCGAGTCAC	260.531535189446	0.441187537176579
ATGACTAGCTTA	260.69344178655	0.925550293881727
CTCTAACAGTCA	260.853183813724	0.657920491960711
GTCATACCGAAA	260.855028480522	0.498031604567222
ACGACTTAGTCA	260.989475210277	0.714624703785697
ATGAGTCGGTCG	260.993650219137	0.317928786940004
AGTCACCTTTAA	261.012829869808	0.299960894412197
ATGAGTAAACGC	261.024638366001	0.287773087272777
GTCATATATTCA	261.096722639586	0.788761836577641
CAACATACGTCA	261.220965087703	0.455298005342329
TGACTCAAGCAA	261.336013852949	1.10543144284152
GATTACTATGAC	261.493482768929	0.378868583726926
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GTCATCGACTGA	261.605433065024	0.849357652210339
TCACGTGAATCA	261.636795563639	1.26325694777285
GTAATTTATGAC	261.734412833933	1.00619941474378
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GTCATAGTTTTA	262.04111557981	0.667883938619572
GCTAATTCGTCA	262.135463295206	0.867923913921736
ATGTACACGTCA	262.145768349023	0.815377429871791
TCGCTAGAGTCA	262.256722053171	0.539519986888998
ATGTGTCAAAGA	262.298041866823	0.342884958601884
GTCATAGCTTTA	262.30383441737	0.481524599808896
GGTCCCTATGAC	262.381652994706	0.58472512309744
GCATCTTAGTCA	262.390292922286	0.584086811521161
CCGCTTGAGTCA	262.4656948938	0.856562530870736
TGACGTCAGAAA	262.534994192663	0.403087432272807
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GAACAAGTCATA	262.612374942128	0.345071264534555
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ATGAGTAAACCC	262.701314555477	0.254751320317314
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AGTCTGTGTAC	262.922270012866	0.548474403306463
GTCATAGTTCGA	262.958674151657	1.03390159285547
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GTGACTCGCTCA	263.444979080629	0.630810706042035
ATCTGTGAATCA	263.544246395494	0.906632156118736
AAGACCGATGAC	263.5656535109	0.395479235624902
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AAAAGGGTGACT	263.629909305229	0.245280715885915
GTCATACATGAA	263.668111169804	0.740695952261844
GATCCTTAGTCA	263.816117222292	0.556662781477774
CGCGCTTAGTCA	263.905217197375	1.10030020486373
TGACACACGTAA	263.957130781683	0.614967619853319
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CACGATACGTCA	264.081910722414	0.779927686157841
GGCACTCAGTCA	264.088094593949	1.02746351750719
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GTCATACGTAAC	264.15792753693	0.947394292733283
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GGTCACTATGAC	264.257093456016	0.921222421318774
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GTGACTCGCACA	264.659939295221	0.491496438380128
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AAAACAAGTCAT	265.018240040997	0.559856892409467
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TATAATACGTCA	265.104059067495	0.549000285210717
TAGGCTTAGTCA	265.300004474053	0.674455189457038
GCCTCCGAGTCA	265.355041308105	0.269568082702756
TGACACACGGAA	265.435155306197	0.520704998071968
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ACTCAAGAGTCA	265.591103231758	0.556766152345513
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GTGCGTTAGTCA	265.725405643462	0.46170421314572
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GTCACTGACACA	265.748064590072	0.736788992796055
AGTCATGAGTAC	265.781385185947	0.736324400595268
CATGACTCATAG	265.803681562	1.92660247733898
AATCTTACGTCA	265.847361744497	0.371997576161636
AATCATAGTGAC	265.861925493553	1.0827699405926
AAATTATTAGTC	265.968955748315	0.932352417548481
AAGTTGACACAT	265.993719060096	0.373768795007558
GTCATCCGATGA	266.001752789032	0.448294702800662
ATTGCATGACAC	266.064898055982	1.19610295894126
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GTCACCATATGA	266.776872369768	0.63901421017031
ATGCTGTGTAC	266.901399859534	0.45500358015876
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GTCATCGGATGA	267.223389450004	0.592983588224882
ATGACTGGGCCG	267.244966776879	0.55438029768652
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ATGACTGGGTTG	268.334074903089	0.390622019373925
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GATGACTTGTC	268.631458889016	0.432899283224685
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GTTCTTGCGTCA	270.730166219919	0.582119468458809
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CTCAGAAATGAC	275.245057087956	0.61275123287227
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GTCATCGAATGA	281.562661696303	0.718699378450014
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GTCATCTTATGA	281.774577797949	0.457157295948524
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TGACTATAGTCA	281.942290810713	1.16295591775688
ATGAGTCGGCCG	281.951654077839	0.478605155558802
GTCATCCGTTGA	281.996146189543	0.793903241195781
TCACGTGATTCA	282.006738238371	0.799522623577463
ATTGCATAGTCA	282.044840938288	0.83432502756106
CTGCGTTAGTCA	282.057951893972	1.1680109759114
GTCACCTCAATGA	282.095558718821	1.10563102835293
ACACCCAGTCAT	282.102623511594	0.25373325140685
ATTGCCGAGTCA	282.123277250422	1.0248370473209
ACTAATATGTCA	282.126364105901	0.644979875887855
CTGTGATATGAC	282.170446048013	0.861216835166118
CATTAGAATGAC	282.211657059909	0.465421635468205
TCGTCTGTGTCA	282.253177804828	0.697639051045526
GTCACCTACTCA	282.28504373647	0.224454852645605
CTGGCTCAGTCA	282.301133126782	1.18938913900598
ACATGTTATGAC	282.359773182398	0.653895645469747
CGTCAATAGTCA	282.419244115359	0.743114251630682

TCCCCTTAGTCA	282.462945898277	0.44666807944508
CAACTTGACTAA	282.546091914586	0.988882874051258
GGTTTCTATGAC	282.564248034685	1.15632236018615
TCATTGACGTCA	282.56796266905	0.432782552069432
ATGTATACGTCA	282.576208671374	0.921843272873195
ATCTTGATGAC	282.591040403231	0.702283097331928
CGCATGTATGAC	282.63423531446	0.592487960177736
CCGTAACAGTCA	282.665029545774	0.737678737616014
GTGACACAGATA	282.717238471206	0.507996554160624
GTAGCTCAGTCA	282.74098427931	0.77908647986406
CTTCGGTATGAC	282.766586386805	0.550479792200041
GCACCGAGTCAC	282.790310425181	0.628897243333323
TGACTGATGCAA	282.893807282768	0.760788049691204
TGACAAGACTCA	282.905485702807	0.652289238940245
ATGACTGGCCA	282.938190445533	0.651994070722364
ATGACGTGACAC	283.147561175707	0.489661529330769
CGGTATTGCTCA	283.245191717566	0.689274336324853
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CCGTAGTAGTCA	283.356720626973	0.650316560309262
GATCTAGAGTCA	283.388606521949	0.268591497971447
AAAGCTTAGTCA	283.393610008055	0.588753075109362
ATTCTGTGTCAC	283.485129007876	0.439773139209453
GTCATCGTGACA	283.538638891368	0.874412461424569
GTCATATATAAC	283.570582636808	0.515400699645601
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ATGGCTTAGTCA	283.611276751497	0.908454950776612
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GTATACACGTCA	283.661094409799	0.798025617206725
ACTCCGACTCAT	283.675746589338	0.192849689683276
CTGCTTTAGTCA	283.708349736576	0.423746415358273
GTCATTTGGTCA	283.751520111158	0.555040704503353
GCCGTTTACTCA	283.811037843179	0.440458913471444
CAACCGAGTCAC	283.813804952864	0.245357515841739
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GTCATATTAAC	285.267120846718	0.721749496056402
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AAATACACGTCA	285.579459190991	0.26501794245991
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GCTTAATGTGAC	286.27926322151	0.353992145423136
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GTAACCTAGTCA	286.490923518741	0.447964839760601
CAGTCATGGTAA	286.571409237003	0.515828195363831
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GCGGCTTAGTCA	286.850310750591	0.825678875973247
GTCATAGGTCCA	286.896727748596	0.448194885230716
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AGTCACCCTAAT	287.294835359137	0.0726981234933313
ATCATCTATGAC	287.366287678668	0.547673863687064
AGATTTGCTCAT	287.388337408306	0.375233409487349
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ACCCCTTAGTCA	287.609199855994	0.353571852771272
CACCTAGAGTCA	287.644367522132	0.754273905798634
GTGACACAGCGA	287.678303457139	0.655658382327079
CCTGATACGTCA	287.723485784856	0.80293212014622
GTCATAATATGA	287.783562820776	0.489017259000426
TGAGTCGTCACA	287.795680284333	0.680229362201432
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ATGTCGTATGAC	288.08035695605	1.090296633787
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AGTCACTCTGAC	288.687844491354	0.365627725740617
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GTGACTCGGTTA	288.77045011555	0.692120388795297
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GTCATACAACAA	288.877433744104	0.70222946648512
GCGTCTTAGTCA	288.903542104192	0.484763042307761
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ATGACTGGGTGG	289.462124553003	0.289125488466543
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CATGACAATGAC	290.145686288912	0.75939608443598
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GTCATATTTCGA	291.37081134663	0.449674934286255
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GTCACCCAGTCA	291.38586609055	0.733386465510252
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CCTTGGTATGAC	298.238693896193	0.768030366880788
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CACAGGTATGAC	298.270943552659	0.514711772583544
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CATCAAGAGTCA	298.556513087909	1.11306270653687
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CACTCGGAGTCA	298.801832296437	0.585120646989795
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CCAAATACGTCA	298.92877077112	0.846923129817136
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CCGTATGATGAC	298.945768229559	0.762106111780798
CTTCTTTAGTCA	298.989306249404	0.469432597552891
CCGTCCGATGAC	299.015469882927	0.708705126721425
TGACGTGTATCA	299.103578750893	0.544867590494561
TCATATACGTCA	299.191169869094	0.744859403138727
ATGTCACAGTCA	299.222777856081	0.438320167130061
CATTTGGATGAC	299.260588219303	0.365894527704585
GTCATAATTTCA	299.280100829371	0.866972060834897
GACTGTTATGAC	299.28611270222	0.524768610479462
AGTGTTCATCAT	299.287985034394	0.273601244689786
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CGCGCCGAGTCA	299.316655143389	0.716933052725635
ATGTGTCAATCA	299.383177089724	0.319866060553541

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GTCATACCTGTA	299.45121980994	0.729775042184394
ATGACTAGCTAA	299.471537977229	0.776932665758153
CGAAATCTGTCA	299.594905971786	0.874806860662858
CGTCATTCGTCA	299.603811818561	0.639607644647773
ACGTCTGATTCA	299.679662937333	0.293321144905941
ACTGATGATGAC	299.820846719606	0.619506067693336
GTCCTTTAGTCA	299.853221464865	0.613539919229854
GTCATCGAGAAC	299.885536110369	1.03400411972123
ACACCGACTCAT	299.91251907541	0.327465793649485
GTCATTGCAGA	299.985693841364	0.402563632837282
CTGACGCAGCAA	300.03249620309	1.16325807810053
ATTACTCAATGC	300.042027817042	0.366157299993311
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GTCATCATGAAC	300.309155787774	1.44884328071793
GCGCTTGAGTCA	300.321169618606	0.503124154401797
TGACTAAAGTAA	300.356684212646	0.711067673094222
TGACGCAGTCAA	300.379961946188	0.888662480073781
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ATAATCGCTGAC	300.531810645263	1.61661081593774
ATGACGTGATCG	300.548347966602	0.58186082666384
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AATGCTGCGTCA	300.946656894701	0.767355428720466
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AAATACTATGAC	302.556878646431	0.439809533744991
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CAACAAGTCATA	302.758228155013	0.561236007268498
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GTCATACATTTA	302.984281268629	0.310844396459053
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CACTAGATGACG	303.052909789011	0.459700089354635
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GTCATCAATTCA	303.584792643573	0.359731912136944
ACGATACAGTCA	303.628954033767	0.783388713865457
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TCAGTCAGGCAA	303.777747289343	0.502193091545978
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GTCATCGTAAAC	304.089044107008	0.692569909442248
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AGCAACACGTCA	304.239453712022	0.45739282788689
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CAGCTAGAGTCA	304.843931474264	0.774286714683776
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GAGCGTTAGTCA	305.272444946797	0.422176821499291
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TAATAACAGTCA	307.970249989358	0.691242041886414
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GTCATACCGTGA	308.047615160257	0.813706480243479
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GTC AACGATGAC	308.198962785378	0.466254720783721
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GTCATTCTACGA	312.049359126191	1.13611405042582
ACTCATATGACG	312.054394509449	0.487786257533126
AATGCTAGTCAT	312.125991300564	0.584353609232011
AGTCACCCTGAA	312.169779103343	0.603582603371957
ATGACTGGGCAC	312.241572681823	0.347899812758875
GCAGACTATGAC	312.296177477365	0.590618670141116
CTATGACTTGGC	312.298287867378	0.452977268373351
CGTACTTATGAC	312.316683183021	0.70183792024343
GCTCCGAGTCAC	312.348848237241	0.329097564670842
TGAACTCAGTCA	312.394632020922	0.467184161860846
TATGACTTGGCA	312.410450343672	0.382900349806922
AACGCTCAGTCA	312.412752685153	0.400952458063108
ATGTGTCAAACAG	312.503080297286	0.68788266776351
CTTTTGGAGTCA	312.542755285337	0.786719012497305
ATATGCTATGAC	312.578009814967	0.964784845611842
GTCATCTAATGA	312.589642477395	0.739766245120589

AGGTTGACACAT	312.650637521662	0.286539231005766
AGCCTTTAGTCA	312.66304619765	0.664737801794955
ATTACTCAATCA	312.710327284475	0.239078589172168
TAATACGTGTCA	312.727314404319	0.433287739263561
GCGGATACGTCA	312.783101003759	0.369252916927127
GCGGATTATGAC	312.787112679594	0.481157747100224
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AATTATTGCTCA	312.841042656861	0.37081266352996
TGAGTAAGTCAA	312.877767970245	0.566850938534631
CTATGGTATGAC	312.940518024191	0.769155735894079
CTGACTGTGTCA	312.949995583875	0.32535985989884
CAAAACACGTCA	313.144336419825	0.743134755470667
AAAATCGATGAC	313.189534132549	0.185953219456575
ATTACAGATGAC	313.193412912588	0.669366549562673
CATTATGATGAC	313.220738452233	0.72956551078577
GATACCTGTGAC	313.32324002787	0.902892308988593
CAGATCGACTCA	313.323367214223	0.565611320744075
CTATGATATGAC	313.365577714579	0.961678191812155
GTGACTCGGTGA	313.402651823255	0.321955776591989
CATTAGGATGAC	313.450972823669	0.697104838046399
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CCGCTTTAGTCA	313.499552292562	0.301527188754179
GCTCTGTGTGAC	313.522382410321	0.472935824624293
ACTGTGTATGAC	313.542459256611	0.532333915275298
ACGTGATTAGTC	313.576229231189	0.705187771037321
TCTGATTGCTCA	313.59505662845	0.507912069500321
CCTCTGTGTGAC	313.605623894677	0.202321555152633
CATCTTCAGTCA	313.644976769341	0.181033071078864
CTGCTCGAGTCA	313.793512334866	0.68676954768495
GAGCCGAGTCAC	313.807011964369	0.642566936764328
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ATGTGTCAAAGC	313.979897081739	0.408934728961553
GAGTCAAATGAC	313.983300647675	0.340216986236849
ACGCATTATGAC	314.012643782433	0.252761909963539
TGAGCAATAAAA	314.016423727876	0.163796955788836
GTCATCATAGAA	314.035668082236	0.706068123626308
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CCAATGTGTGAC	314.146664108041	0.526017263681031
ATGACGTGACAG	314.173093056246	0.45933004527496
CCGAATTATGAC	314.232788332567	0.394692849606063
ATCTTTGATGAC	314.251212402829	0.899155873962136
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ATGAGTCGGCCA	314.36882104772	0.520644694208057
TGACTACTAGAA	314.453468713412	1.063026400996
GATAACTATGAC	314.487690949562	0.90341878712948
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CAGACGTATGAC	314.555035511516	0.544955117715018
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ACGCCTTAGTCA	314.568590256278	0.655455156425109
ATTGACGACTCA	314.569193403199	0.420781008513991
GCCAAGTCATAC	314.633873174784	0.559755151653932

ATGACGTTATCA	314.648680946128	0.581109427474062
ATGACTTGG AAC	314.694667591461	0.455157431262427
CACGATGATGAC	314.925777914445	0.315972066329897
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GTCATACATATA	315.215810355899	0.928994439188166
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CAGTCATGGTTA	316.273965731347	0.451153269700258
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ATTCTTCAGTCA	316.421812588515	0.266497162875402
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CTCAACACGTCA	316.625066745941	0.302355759880796
ACTAGTTATGAC	316.661629982069	0.8196993266038
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TACTGGGAGTCA	316.750340706709	0.716131382473974
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GTCATACCGTTA	316.878805129358	0.59913090429065
TCGATAGCGTCA	316.916091390612	0.690287654291495
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GAGTAATATGAC	317.066230692884	0.416330693273159
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CGATCTTAGTCA	317.321011603962	0.813890143099837
CACTCTGTGTCA	317.354099341126	0.441184596750507
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ATGAGTCGGCGC	317.677928870052	0.540088956347211
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ATTAGTCGCATG	317.909830785729	1.36577321041462
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AGAGTCAATTGA	318.042387637391	0.410160494924435
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AAACCAGTCAGA	318.394741690206	0.391754561457659
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AACTACTATGAC	318.783311437047	0.788446627511234
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TCAGGTGACCCA	321.200866067459	0.857595870845722
ACTTATGATGAC	321.21223081784	0.541945546225178
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CTCAAATATGAC	321.609978761872	0.403344468225786
GTCACCGCAAGA	321.655856690036	0.305275316170474
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ATGACGTTACTC	324.833321055674	0.196243322794614
ATGACTTGTACG	324.883539228655	0.28496253060613
GTCATAATGCTA	324.921889849917	0.334357813748393
GTCATAGTGTGA	324.938750920884	0.816463814886164
GCCTTGTATGAC	324.973811805257	0.852829537725445
CTGTGAGAGTCA	325.000699785849	0.731066676693899
ATCATGTGTGAC	325.010612210878	0.676557484402691
CGGCTTGACTAA	325.032586374485	0.909361167102887
GTCATAGATTAA	325.039351268999	0.542081707384086
ACACCGAGTCAC	325.090346210305	0.456367221366784
AACTGTGAATCA	325.13664476566	0.638982297530498
ATGACAGTATCA	325.297310294313	0.757346398629116

ACCGCTCAGTCA	325.32120060096	0.645712321624362
CATCTTGCGTCA	325.336591652466	0.369391420654917
AAAGCTAGTCAT	325.372691303092	0.377364014954934
ATGAGTCGGTGA	325.391558777887	0.428730887765036
TACTTGTAGTCA	325.39613710388	0.552339243217806
CAGTACTATGAC	325.408199369923	0.375434600193507
AATAATCCGTCA	325.433747699316	0.649514509276151
AGTCACTTCAGG	325.482621789668	1.23353750804351
AAATAACAGTCA	325.523375937611	0.520892902041504
ATGACGTTATAC	325.640992536229	0.580676497290721
GACAGATATGAC	325.68200034135	0.568791518137051
GACTCCGGTGAC	325.731228287681	0.856056472195322
GTCATCCCGGGA	325.738617904872	0.820128189823654
GTCATAGCATCA	325.836417821613	0.801201776853508
AAATTGTGACGT	325.850530623005	0.281062534777874
ATGATAAATGAC	325.863413256781	0.311943466195449
CCGGTGGAGTCA	325.869636200771	0.35623580207905
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GTCATAATAACA	326.089685535757	0.647875336841714
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ATGACGTGATGA	326.160395696579	0.241014643833672
CCTCGTGAATCA	326.170157934751	0.117580676654295
GTCATATTATGA	326.206412128349	0.646703540463622
ATGACGTGACCC	326.218774421224	0.711908635661546
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AGACTAATAATG	326.349550750093	0.3877117652568
CACACGTAGTCA	326.370041218323	0.757632576620159
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ATGAGTCGGAGC	326.420177635477	0.375722211217324
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CGTCGTTAGTCA	326.510165155323	0.951664497404628
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AGTCACCTCTAA	326.630108833787	0.323987833095777
CATTTGACTCA	326.635712103285	0.542917198346251
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GCCCAAGAGTCA	326.706053344909	0.70847406701915
GTCATAACGTGA	326.721919471335	0.63387630833577
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CCTTCCGAGTCA	326.75647371344	0.390179747397196
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GCAACCGAGTCA	335.543586578396	0.589790563944186
GTCATAGCACAA	335.548647715933	0.536981361836879
AGTCACCTTATG	335.550357415191	0.613823803481956
AAACAAGTCATC	335.58357656263	0.17211866402671
CCAAGTTATGAC	335.618982561922	0.843127744042732
AGATGCTATGAC	335.695014828419	0.295153891634549
TGACGCCAAAACA	335.729139267573	0.730235530600943
AACGCTGTGTCA	335.785438936046	0.903195528556404
TGACTAGGTCAA	335.902602409691	0.396266628348091

CGAGCTTAGTCA	335.936919554237	0.695077779954934
CATTCGGAGTCA	335.941854865342	0.556811014090174
CGACTCGAGTCA	336.029072122377	0.656334479017938
GTCACCCGATGA	336.065854072105	0.685749383970115
AGTACCCTTAC	336.083672704308	0.324639227636969
GTCATAGTCGTA	336.087537518645	0.922742162815831
GTCATAGTCCGA	336.321851541835	0.584182026366964
CATTAACAGTCA	336.329986857157	1.02186172511587
TAGTTCGACTCA	336.36193937541	0.468246343656119
ATGTAATATGAC	336.451869552909	0.812208722361728
GTCATCATGTCA	336.47430534988	0.295707534644311
TCGAGTGAATCA	336.479571619773	0.465612792105967
GTCACTAGTGAC	336.50412062645	0.871630639249395
CGATCGTAGTCA	336.50512487242	0.481275228803027
ATGACTAGCCCG	336.511954780819	0.675847272473351
CGGGCTACGTCA	336.522245663449	0.849503283208088
AGACTAATCGAA	336.525509937896	0.60739223284112
CCATATACGTCA	336.580886748788	0.607639714564981
CTTTTGCAGTCA	336.596717409984	0.31444138693806
ACTCATCGGTGA	336.637506946317	0.817064697528242
ATTACTTACTCA	336.655986214404	0.545734647550733
CCTGCTCAGTCA	336.697530691102	0.368776554304749
ATGTATCCGTCA	336.733215670887	0.669060549801232
AACATGTATGAC	336.754786208021	0.796233822516055
AACTTCGATGAC	336.778901741785	0.989332688294646
AACAGTGAATCA	336.798633532559	0.14126397644513
AGTCACCTTCAG	336.827569091174	0.297902537160696
ATAAAAGTGTC	336.831473391373	0.605784475736605
CATTTATATGAC	336.832225030252	0.837150566426573
CATGTTGATGAC	336.907487236865	0.960487737618741
ACATAGGATGAC	336.917316660242	0.6183803133334
GAGTCAGTATAC	336.970775630664	0.259832450284996
ATGACGACGACA	337.049490116528	0.501416820018833
GTGACACAGCTA	337.069852542238	0.12375464895696
ACCGCGAGTCAC	337.075669566536	0.714515795978104
ATGACGCGCAAT	337.163828446602	0.368899062046195
GTCATCCGCGAA	337.17745765893	0.752476961780046
GTCACATATGAC	337.184717915771	0.763160842704112
CGGTGACATGAC	337.209707067166	0.794718207082197
GTCAGGAATGAC	337.272829727095	0.445637422914201
GAAGCTGTCATA	337.314997153867	0.23791694570097
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GTCATACCTAAC	337.448937286952	0.190772816047458
CATAGCGGTGAC	337.498076643735	0.343116203124484
ACTACCGATGAC	337.554272587765	0.322949366142154
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ACGCATCGTCAT	337.599106392077	0.557977900155041
CACACGTATGAC	337.599389036871	0.441582537636398
GCCTACTAGTCA	337.626366667626	0.433418160795778
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AGTCACCCTGAT	337.632650553443	0.471330110191019
GCTCAATATGAC	337.647535482508	0.794937548722487
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TGTCATTAGTAA	337.779331770278	0.33693797477593

GTCATCGGAGGA	337.824108225807	0.224101284722195
GGACAAGAGTCA	337.98508012145	0.536596885592499
TACTACTAGTCA	338.003711850587	0.148023054960225
GTCATAGCACGA	338.005739422503	0.410430618140766
GAAACTCAGTCA	338.008001639992	0.635005835561492
GTCATACCAAAA	338.037271294912	0.729129060218092
TCGACCGAGTCA	338.058016503428	0.55083027999512
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ACCAATTCGTCA	338.072119539235	0.479501236255787
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ACTCTTCAGTCA	338.138578125422	0.452302981917982
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CGTCATCTCGAG	338.154807423853	0.678787954130842
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GTCATAGGGTCA	338.232465275692	0.513949943995648
GTCATTTATATA	338.246320856499	0.752466340658607
CACAAAGATGAC	338.254848767785	0.859964168554848
GTCATTTTCGTCA	338.268425379968	0.596974912268232
CTACGTGTGTCA	338.280442103687	0.447181894387642
GTCATTTACGCA	338.391572230608	0.529240909637502
GCCCATCAGTCA	338.42333984834	0.495172151334863
ACCCGGTATGAC	338.448368254514	0.968279448747087
GTCATAGCTCCA	338.454051898731	0.351096206206455
GATGTCTATGAC	338.465259383738	0.779018085560246
AAAATGTATGAC	338.490821056214	0.504839569519879
TGAGTCGTTCAA	338.537204341582	0.527504521919846
CAGTCAGATGAC	338.593229689529	0.315660697157163
TGACGCAAACAA	338.600635580403	0.688964604403085
ATAACCGATGAC	338.620811423684	0.765840858033501
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ATGCTTCAGTCA	338.689298663816	0.648030325838294
ACCTAGTAGTCA	338.716644820962	0.82634948160815
TAACTGTGTCA	338.728548342766	0.354685221401725
AGAAATACGTCA	338.733262603214	0.405951900791804
AACGCTTACTCA	338.75078085123	0.60446424542966
ATGACTGGGCTC	338.751988773626	0.121651213422643
TGAATCGACTCA	338.767909005866	0.700075034118253
TATCGTGATTCA	338.780299908607	0.547536240140439
CACCATGAATCA	338.799729968649	0.705583472746246
CAAACAGAGTCA	338.815116791671	0.949953570163584
AGTCACGGTGAC	338.912833505069	0.656860877111345
CACATAGACTCA	338.916439409532	0.651111873284857
AGCCAAGAGTCA	338.929007524925	0.701528116471087
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ACAAATTATGAC	338.972150477689	0.443030719354498
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GTCATCGTTCAA	339.050544775353	0.365139143545394
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AGTCACCTATA	339.054760517474	0.256225147165627
GTCACCGCTGAC	339.086653583656	0.702612276856795
GTCATTCGTAAC	339.105566308616	0.130045547581801
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CACGCTCAGTCA	339.156759378692	0.462777301783973

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CTGGAGAATGAC	339.243961702745	0.443305044157619
GTGACTACCATA	339.244570411944	0.513688930969718
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AAAAGAGTGACT	339.286654508403	0.290623575713566
ACCAAGTCATAG	339.295697996651	0.372848039229557
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AAAATTGACTCT	339.336531953704	0.792937934369665
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CTGTCACAGTCA	339.487019948762	0.423669520983132
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CTAGATACGTCA	339.59241181824	0.508470550879789
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ATGACGAACTCA	339.719513476478	0.392214102448212
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GTCATAATCTCA	339.831556461725	0.670266673352366
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GTCATAACATTA	340.394561871731	0.865832956386921
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CTGAATCCGTCA	340.5268487847	0.374759376092021
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GCGACTTATGAC	342.775406060295	0.841888715235275
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AGTCACCTCTAT	345.117371640037	0.346513274657859
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CACACATATGAC	345.3435455937	0.345356543228337
AAGAAGTCACTC	345.397528960197	0.638325497968611
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AGTCACCTCATA	345.471094556848	0.462028790636965
CTATAACAGTCA	345.474000873797	0.245884711197491
ATAACGAATGAC	345.522732273792	0.936224129813319
CCCCATCAGTCA	345.550931309999	0.206203648382926
CAACTGGATGAC	345.553524458092	0.706620401772473
AGTCCTGCGTCA	345.570916643566	0.571030192801168
CCTGGGGAGTCA	345.685780574444	0.737494456770567
ATTATGTATGAC	345.696682416657	0.933266547432243

GAGTCAATGCCA	345.699495382293	0.691899039938943
GACGTTGTGTCA	345.702901515461	0.560081126476266
AGCGCTGACACA	345.849469468674	0.534228142414799
CATGTGCAGTCA	345.863167379158	0.712377797360109
GTCATCGTTTTA	345.879264214268	0.671714144546623
GAGTCAGGTGAC	345.902657696216	0.269358924614609
CACAGCTGTGAC	345.918359941662	0.58481871425656
ATTCGTGATTCA	345.934769711253	0.835644733085061
GTGCTCGAGTCA	345.939683252536	0.992591322542129
ACCGTGTATGAC	345.951755009673	0.706646957797353
GTCATAGTATTA	345.966044775951	0.845849921028427
GTCATATTCTCA	346.000572494182	0.421654602223154
CCTGAAAATGAC	346.006295859168	0.758693668631705
CATCGTTACTCA	346.050905742043	0.463267964285291
ATCGATTATGAC	346.05182189775	0.347464927307409
GTCACGTGACAC	346.054092626753	0.663691344646043
ATGACGAACATG	346.057156522038	0.198760869375546
ATGACGTGATCA	346.160008774706	0.417725600749055
GTCACATGACCA	346.228243645992	0.562581496426491
GTCATACGTCTA	346.236824932797	0.512003972694323
TGACACAGACAA	346.245428490521	0.453276673141885
GTCATCTTGTCA	346.286181942464	0.519129959922882
AGAACCGATGAC	346.313179773501	0.425353135818697
AGTCATGAGATC	346.341540969141	0.815757510515128
CGACAAGTCATC	346.349912719677	0.385402025665418
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AAACTTGACTAA	346.428606570534	0.32501800868535
CTCAACTATGAC	346.441603571067	0.210560554910407
TGAGTAAAGTGCA	346.472157788129	0.409638967705533
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ACCATCTATGAC	346.53613569609	0.378554435804659
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ACTAACAATGAC	346.683003349214	0.24976999524269
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TGAAATACGTCA	347.020237442571	1.26859846679963
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CTCACCGAGTCA	347.086204559262	0.453302053673943
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CAGTCGAATGAC	347.222323157458	1.26986554383859
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GTCATACACCAA	347.260153119563	0.261036656327158
GTCATAATCATA	347.305250617771	0.444717503991479
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GCGTCACGTAC	348.29872915465	0.670936873055351
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CAATCGTATGAC	354.948975536418	0.432011674433249
CTGGACGCGTCA	354.954286223158	0.755273134667157
CTGCGTTATGAC	354.97591376663	0.634253521882538
ATTACCTATGAC	355.012883355451	0.488858070664315
TGACGCTACGAA	355.039243598061	0.646414863500346
CAGTACAATGAC	355.044596707908	0.797577682834983

CACTATAATGAC	355.050859669641	1.04819370401077
TAATCATAGTCA	355.061249053764	0.463116863436296
AATGAATATGAC	355.099537262722	0.703593081024129
ACAATTGAATCA	355.116401947185	1.21128028951807
CGATATATGTCA	355.127480442457	0.812818942920957
ACGGACGACTCA	355.138472080806	0.490046321230405
GTAAACACGTCA	355.154715631149	1.02795893919539
ATGAGTAAAGTC	355.161169343747	0.3821114411768
CTTACAGAGTCA	355.186951880985	1.08134932277757
CTATTTGTGTCA	355.30254302833	0.405543648511807
TCCTTTGCGTCA	355.30619741247	0.468433511957151
GCTTACACGTCA	355.314674934157	0.611589495890457
ATAAAAGATGAC	355.367391974608	0.479350742169591
TATGCTCAGTCA	355.37081600578	0.541585741080646
ACGTTTTACTCA	355.386569290271	0.317336302554607
GCAGTTTACTCA	355.428030145611	0.787788817093295
AGGACTTACTCA	355.444141173589	0.712313895024086
ATGACGTGATAA	355.451778962163	0.626410474248367
TGACTCGGAGCA	355.452571164484	0.538552602062581
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GTCATTGCTAAC	355.490611104818	0.391279043942163
GTCATCGTACTA	355.522518251279	0.717034416194095
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CAGCAAGAGTCA	355.557913246201	0.533258951696711
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GTCATAATTGAA	355.620659890233	0.710347677008579
ATGAGTAAAGAA	355.774914166462	0.319542283051457
TCACAGCAGTCA	355.801145798104	0.579473853252428
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GTCATAATTGTA	356.353098024324	0.671078872184183
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GTCATCATCTAA	356.519209493525	0.47460219219932
GTCATCCTGTGA	356.562478922627	0.364133975320364
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AGAACCTATGAC	356.611258130215	0.378940502214957
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ATCCAGTGAGTC	356.657498801122	0.456300843234588
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CACTTCGATGAC	357.548182987715	0.564228964850527
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GTCATCTATATA	357.914444918232	0.694929326978764
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GAGACTCAGTCA	360.397416680249	0.122891948470347
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GCTGTGTATGAC	363.440655760529	0.633113395981594
CCAAATTATGAC	363.469581910946	0.844427113493317
CGAATCTATGAC	363.544746662336	0.631293675188762

CATTTGTAGTCA	363.544902445361	0.495077909748992
CTCGGAAATGAC	363.556317140613	0.505991703444792
GCATAAAATGAC	363.587509537621	0.67649504704159
GTCATAGTAGAC	363.602768652875	1.10475193313486
GATAACGATGAC	363.608727911792	0.342909128135243
AGTCATGGTGTC	363.652269075602	0.657378382757051
GCTAGGTATGAC	363.655191915239	0.344533920844885
ACTGACGACTCA	363.676149650936	0.37218993287077
CCGTTACAGTCA	363.700685553094	0.489415180959023
GTCATACCCTAA	363.709042736231	0.367949105258993
GTGACACAGCCA	363.818275034038	0.627046335094875
CCACGAGTATGA	363.834015699489	0.963793768945504
TCAGCTCAGTCA	363.970506113698	0.328208260250797
TCACTTCAGTCA	363.980097153455	0.38001038574479
GTCATAACTCAC	364.0434435252	0.459842210038672
ATGACTGGGCTG	364.128949912053	0.612282176675043
CATTCGTATGAC	364.197992499015	0.6692727315417
TACTAGCAGTCA	364.262924774738	0.58794734948001
CACACCGATGAC	364.274734885114	0.358728758842816
GTATTATTCATA	364.275971367696	1.02222029890078
TAACTCGAGTCA	364.284357309467	0.435576535583742
AATGTTGTGTCA	364.320405497959	0.314554833563428
CTACTTTAGTCA	364.4231330177	0.19632884379024
AATGAGTAGTCA	364.43301225028	0.425063833111953
ATGACTGGGAAA	364.459753491572	0.411880857278636
ATGACGGAGTCA	364.503250742927	0.577876986730181
ACTTTCGATGAC	364.522655434781	0.460685120224217
TCAGTCAGGGCA	364.556802759188	0.347005976970948
AATCTTCGCTCA	364.598130463437	0.651954389854517
ATGACTGGGTGC	364.615453192172	0.441084217862763
CATATTGATGAC	364.616650746675	0.635879368845983
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CTTTATACGTCA	364.644831330494	0.249906619827099
TGACTAGTTAA	364.659369981142	0.222747057504163
CCCTTGTATGAC	364.668581619434	0.396788203022526
GTCATATTA AAA	364.687275912451	0.795633813810441
TCCGATACGTCA	364.747908598595	0.503375666402432
CGTCAGAATGAC	364.789766066016	1.22283383838147
ATGACAAAGTCG	364.80948680885	0.414617760092885
AGCTTACAGTCA	364.817242676374	0.681858251841065
GATTCGTATGAC	364.852550655934	0.546509997587795
CACACGGATGAC	364.909164164825	0.785825204512337
AGTCACTTCTTG	364.912909496343	0.644919755116202
TGACATGTGACA	364.913224936719	0.855678461736441
TGACGTATTGAA	364.914606952572	0.424325957070695
TGAAATCCGTCA	364.919133890183	0.61138491461176
GACTTGGATGAC	364.979112504368	0.391626526063882
GCAATGTGTGAC	364.980252632669	0.860411182750126
TATTAGTAGTCA	365.02661719555	0.893851660917357
TCAGTCTAGTCA	365.034488497932	0.593622479800473
CCTAACTATGAC	365.054937626212	0.674963832976241
GATACTGCGTCA	365.065740349487	1.08860689576246
AGTCAACCCCTAT	365.218086610388	0.412629598357798
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GTCATCAGTACA	365.248560435014	0.951710702226116
GTCACCGTATTA	365.256049074015	0.628208301567608
GTACTIONGACGTCA	365.26464241071	0.392030127861179
TGACAGAGTCAA	365.292398778655	0.502303887636543
GTCATACATGTA	365.294330081593	0.383288215247746
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GTCATCTCTTGA	365.450421185762	0.470346117299115
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GTCATAGTGCAC	365.455210422368	0.416240587524262
CAGGTCTATGAC	365.499918664625	0.602346194892211
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CAGCGGTATGAC	365.576909008385	0.26926907788254
GTCATATTGACA	365.581065534631	0.496039697637916
ATCCCATGACTG	365.586895390146	0.315061081617101
CAACCTTAGTCA	365.590161582563	0.916469138164865
CGTCATTGCGAA	365.629318089944	0.603234049296356
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GTCATATCGTAA	365.899801903423	0.602967503673223
TAATTAGACTCA	365.936742066724	0.753289900045098
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ATGAGTCTCAAA	366.013673538836	0.151956080741328
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GCCTACACGTCA	366.152118868433	0.720005668259942
GTCATAATCCGA	366.15382777403	0.310205441209006
AGTCACCCTCAG	366.226209764649	0.439955619096203
AGTGCTTACTCA	366.234184218361	0.62399888706185
CGTCATTAGTGA	366.240521721625	0.801504134783163
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GACACGTAGTCA	366.379590000409	1.20336923487346
GTCATACAAGCA	366.386103288122	0.47634670220999
CGAAGGTATGAC	366.391700132342	0.970228948074691
GAACCGTATGAC	366.429900067237	0.754488354492721
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GTCATACCGGAC	366.529826737179	0.578265196125265
CCAGGCTATGAC	366.592777496387	0.577402198790724
CACCATTATGAC	366.609034423504	0.321091931805726
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TACTACTAGTCA	366.631643322159	0.412292501389488
TACGGTGAATCA	366.632759959159	0.186450739810907
TGACACAAGTAA	366.654207136602	0.614271567454844
CATCCCGATGAC	366.695473474292	0.52885107480674
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GTCATCATCAGA	366.824790800105	0.369226921758759
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CGCTACGATGAC	366.869492245013	0.723091919405164
GATGACGCCCTAC	366.871827294333	0.36095281381889
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CCTCTAGAGTCA	367.207807412316	1.02202112345529
CACGATGAGCCA	367.224236815874	0.445980064342221
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GTCATCGGGCGA	367.469513898495	0.55118326820949
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CAATGCGATGAC	367.642141532526	0.594119717571764
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ACTGCCGATGAC	367.80450988418	0.621027013017469
CTTAGTGAATCA	367.844657067868	0.80709549682604
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CGTACTGTCATA	368.860909734303	0.2437658595508
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ATCCCTGACTGA	368.931709342565	0.338337721886415
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AAATCCGATGAC	369.422776650077	0.880792581640254
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GTCATATCCGTA	371.83425392527	0.679893413617522
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GTCATCCCGGAA	371.960278574019	0.828208936604101
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TCAGATCTGTCA	372.050361949677	0.872670720709581
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GTCCTGACTGA	372.196120435967	0.764149508634435
GTCATAGGCAGA	372.247910156414	0.298215450559344
CAGCATATGACG	372.248285931029	0.776774962990242
TGACAAATCAAA	372.252820474106	0.440843436417613
GATGCCTAGTCA	372.256044393913	1.00250457112989
AACACTTACTCA	372.265785786354	0.355492776598239
ACAACATGTGAC	372.273906686552	0.295813552393932
ACCAAGTAGTCA	372.30226248589	0.365031665570889
CAGTACGATGAC	372.333218129962	0.990163975134582
GGCAACACGTCA	372.351664996177	1.05315437172615
CCTAGGGATGAC	372.354088780677	1.07249215609626
GATTCCGAGTCA	372.364135661664	0.407721682897741
CGTTGTATGAC	372.378433825375	0.868370895645471
AGCTGCTATGAC	372.390849822484	0.642727344287769
CAACGCTATGAC	372.504476319557	0.704098809959665
CAGCAAATGACG	372.506872194086	0.779035615959736
CCCAGCTATGAC	372.5240699702	0.692644248015422
GAGTACTATGAC	372.561281758164	0.28092979525594
GTCACGTCAGAA	372.59781044987	1.01496226028212
GTCATTGACGTA	372.628549462572	0.530927170089657
CGTTGTATGAC	372.67108101464	0.728791086479152
GTCATAATAAAA	372.695376220444	0.704835483245207
ATGACTTGTTCG	372.697222049044	0.869113335251627
ATGACTTGTCTGA	372.713618870992	0.668178018844821
ATCTCGTATGAC	372.740361151288	0.446072490545161
ACGTACGTTCAA	372.75452706932	1.94129532755564
TATAATTCGTCA	372.762754116886	0.800408121569898
ATGAAAGTGTC	372.767948216107	0.3658506539258
AAAGCCTATGAC	372.835263329961	0.492971169821039
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ATTACTCAAATA	372.917521338913	0.574307396329224
AGTCACCTTCC	372.954184219537	0.301887269801884
CCACATGAATCA	372.96993866967	0.384180664606387
AAACTTGTCA	372.990766351299	0.411308553967122
GTCATCTATACA	372.991852208965	0.76285767978513
CACGTCACGTCA	373.008388042603	0.685544511143259
GTCATATGAGCA	373.00905829998	0.300621803064229
AGTAACTGACTC	373.019748367827	0.208760310300784
GTCATCGCATAA	373.032120415096	0.478376106008277
ACAGATTTGTCA	373.044098016286	0.485791161701439
GTCATATATTGA	373.081401667388	0.799360139068171
ACTGCGAGTCAC	373.098885570545	0.579571874023473
TGACGTCAGCAA	373.101961691233	0.484853748661797
GTCATATGAGAC	373.103007063828	0.88180610959046
CGAAATAATGAC	373.115399526296	0.585852455902312
TGACCCACGTCA	373.115539360893	0.709773951953607
CATAATATGTCA	373.149061234152	0.979980032714934
AAATACGATGAC	373.16639238552	0.285542379821797
AGTGATACGTCA	373.203081525778	0.384030225294685
TAGTCACGGAAA	373.242833942382	0.554244425426839
GTCATAAAGGAC	373.261135449427	0.312989620888422
GTCATCTCGTGA	373.291967063967	0.418981876019086
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CTCGTGTATGAC	373.31021345433	0.53635900592203
CGTATCAATGAC	373.378421339634	1.01771822691488
AGTCACCCTCGA	373.389101699448	0.417760353658351
GTCATCCGGTAA	373.437387242469	0.597611236430916
ATATTTTATGAC	373.444557417906	0.715234548848706
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AGTCACCTCGTA	373.723335678434	0.266838918544021
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GATAACACGTCA	373.773665477842	1.09546995961055
AAAATTATGAC	373.798249617767	0.532315698345716
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ACTAAATATGAC	373.850055396466	0.58680229895309
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GACACTAATGAC	374.012425186687	0.70482306783705
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GTCATCAATCGA	374.080372184796	0.509476546146098
CTCACTCGGTCA	374.086926303043	0.617661400667735
GCATATGATGAC	374.115472896033	0.999893510777355
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ACATTATTAGTC	374.190237742913	0.372034408367176
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GTCATCGGTATA	374.304252521555	0.473686022554192
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CATCCGTGACTA	374.343725119321	0.632359509433567
TGACGTATTA	374.384691076005	0.563373414128156
GTCATACCAACA	374.408771769874	0.480155640447932
CAGTCGCGTGAC	374.471836184342	0.715998310823165
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GTCATTTTATGA	374.506461362092	0.641066387238509
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GCGATTGACACA	374.524774539298	0.4996850556701
GTAATCCAGTCA	374.538922126709	0.677251317173823
CACGTGGAGTCA	374.553825694318	0.6332151512627
GCTCATTATGAC	374.578762560836	0.233343032474721
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ACATCCGAGTCA	374.660627984352	0.47842098073058
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AGTCATGAGCCA	374.718830916247	0.409467138173708
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GTCATCCTATGA	374.77248748852	0.320602612405024
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CGTCATCGGTCA	374.941192164703	0.536568565723856
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GTCATCTCAAGA	374.992611559822	0.903456527659337
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GTCCTCGACTCA	375.117683456412	0.813009624089942
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GTAATATATGAC	375.21770589363	0.487073013383678
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AAATCATGTTCAT	375.652655966099	0.480744841211703
CTAGACTAGTCA	375.658595817142	0.562433267499072
CTGTCCGATGAC	375.680028027798	0.589052821343708
GCAAGGTATGAC	375.692423570109	0.194618810938155
AAGTCTACGTCA	375.700665616981	0.470995758595812
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GTCATAGATCTA	376.162399387548	0.334962215251987
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GTCATTCAATGA	376.249439393446	0.743557885995714
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GTCATATTTCCA	376.500145957625	0.167064836596273
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GTCATAATCTGA	376.564023351937	0.903158148383437
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CTCGACTATGAC	376.894366023747	0.146515365218679
ACTCATTAGTGG	376.9256479616	1.06349642437988
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GTCATCCGTCGA	376.942828575805	0.340552738531352
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AGTCACCTTATC	377.16416448577	0.310121581140343
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ATACCGGATGAC	377.46717906389	0.508222349230012
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TGAGTCGATGAA	379.637678792795	0.399416697738628
ACAAACTGACTC	379.656115169339	0.691047774596927
ATAAGTGACGTG	379.740885997158	0.239256213665857
TGCTCATGAGCA	379.77894837263	1.0553456197844
GTAGACTATGAC	379.779577675886	0.69989381991235
ATTCTGTTACTCA	379.789038334094	0.41150346726946
CACCACGATGAC	379.801352379892	0.61820151077364
GCTTCGAATGAC	379.82194074731	0.695445041876531
AGTAGGGTGACT	379.827513182614	0.424666482167799
ACCTATACGTCA	379.82824693032	0.439748088904339
GGAAGCTATGAC	379.830160166854	0.596259428556353
ATGACTTGACTG	379.911258021251	0.567437620358098
CCCAGTTGTGAC	379.932309647746	0.710649331041481
CCAATGGAGTCA	379.952536675971	0.866828368408163
ATTTCCGATGAC	379.965821317336	0.568036596567772
CATCATGATGAC	379.977463845202	0.45555242421769
GTGCACGAGTCA	380.027986791997	0.496100205157059
CGTCATATGTAC	380.054727187273	0.458620307465473
CTTGCGCATGAC	380.146502294566	0.365963814853394
CAGACTTACTCA	380.155129648592	0.543983744056837
ATGACTTGGTCA	380.158354896776	0.297507462603977
AGGTTCCGACTCA	380.215312033046	0.543161687870081
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TGACTAGTACCA	380.258340977294	0.85612670022545
GTCATCATGTGA	380.264211989848	0.637754275844864
GTCATATTCTGA	380.26890399729	0.706493105639127
AAACTCTGTCAT	380.285378948276	0.729261876700342
ACAAGATTAGTC	380.31937351587	1.0677542649884
CAGTCATGGTTC	380.322673405414	0.595705771370675
CAGAACCAGTCA	380.328981697198	1.01121846172299
TGACACAAACAA	380.392256622119	0.622800365200157
CCCAAGGATGAC	380.413695439098	0.744861062397161
GAGTCAGTAATA	380.415575810396	0.346674949932013
GACCTAGAGTCA	380.42008567815	0.843146882254471
ACCTCCGAGTCA	380.430985514738	0.348069755540406
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AAATTTTGACTC	380.513496762538	0.535115819781638
GTCATCTTCGGA	380.522061974662	1.03024453172561
GAGTCAAACCTCA	380.570627173949	0.797267956973672
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TCATCATAGTCA	380.616514133069	0.54151657803929
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CGTCATATGTCA	380.692483337918	0.391404335616149
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GTCATCCGAAGA	380.734928001373	1.07422845906989
CGTGCGAATGAC	380.763413045506	1.03717525275438
GTCATTGTATGA	380.765919249184	0.595050688562625
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GTCATCTGACAA	380.807572864677	0.702377702732667
CTCAAAGTGTC	380.906159458512	0.82891763063818
GTCACGCATGAC	380.911236055242	0.375992459826318
TGACAGATTA	380.961141681589	0.733118305185898
AGAATTTATGAC	381.000439501559	0.521631720366492
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CCATCCGAGTCA	381.117173148057	0.784092136911438
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CATAACTGACTC	381.211137121374	0.324953189139574
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CGATGTAATGAC	381.301162982348	0.911987637608419
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CCCGCGGAGTCA	381.715356071899	0.705511116170235
TCCTTTGTGTCA	381.726632314336	0.310221962348065
GTCATACACGTA	381.743593134098	0.27205474403322
CCTCTTCAGTCA	381.753944545252	0.324608336121994
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TGAGTCGAACAA	382.061273332295	0.554578353030636
ACTGTCTATGAC	382.148028444421	0.721638430516961
GTCATAATGCAA	382.148679023658	0.81614320611337
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CTGTATAAGTCA	382.195038567773	0.415264086101882
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ATTAACCAGTCA	382.292927488081	0.592810157753307
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ACTGATAAGTCA	382.322333012434	0.662037791495771
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GGTAAATATGAC	382.406641267594	0.182964549988343
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GTCATTCGGTAA	382.420696228421	0.501534084363089
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CGTCATTGGTCA	382.611127196294	0.423841180999553
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GCCACTTACTCA	382.817432634312	0.29487096013907
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GTCATCGGGCAA	383.323698320376	0.654534629683242
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GTC AACGGTGAC	383.963802534713	0.852413235381952
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TACGCTGACACA	387.22925421348	0.407182593243469
ACATACCAGTCA	387.250661083504	1.07208522178683
GATTACCAGTCA	387.263760307676	0.413195625205612
GCCATACAGTCA	387.277541904506	0.660766238523027
GTCATATTTTGA	387.299090297443	0.822824240907518
GACCCTTAGTCA	387.324545241598	0.507976865443984
AAATGTGAATCA	387.32531453099	0.434915246945897
ACATGGTAGTCA	387.35827542011	0.719289350802034
CGTCGTGTGTC	387.376686111158	0.589559836962932
ACCGTTGATGAC	387.399110261804	0.591642397632192
ATGCCTGACTGA	387.40608606239	0.677445729022059
GTCGACGACTCA	387.555712277225	0.530110265461205
ATCGCTTATGAC	387.617817660162	0.66041197460641
CCGAAAATGAC	387.623010866032	0.824283735960477
CCATCTGTGTC	387.627023849629	0.25723829555117
CATTAGTGTGAC	387.669487609487	0.590262321377797
GTCATCGGGACA	387.680926857356	0.627619137845874
CACCAAGAGTCA	387.710472892648	0.619957103999836
GCACCCGATGAC	387.718529054724	0.759824131254655
TCTGATTGGTCA	387.738917000861	0.613395399417803
CACGTAATGACG	387.78440238017	0.866601930263874
CCCTTTCGCTCA	387.78842629935	0.472499491513831
TGACATATTTAA	387.79077348036	0.87671737647338
CAGGCTCAGTCA	387.819704934458	1.02339988620931
AGAGTCAATGAG	387.825393103625	0.300460841578638
CTTGCTCGCTCA	387.832429154107	0.571549697432158
CTCTGTTATGAC	387.834552532334	0.423187646165179
AGAGTCAAATTG	387.876702952182	0.260665516037948
TCTACCGAGTCA	387.922161426188	0.175353244533378
ACATGTGAATCA	387.956822440736	0.735001039373896
CATTACTGACTC	387.971659788073	0.321665655960338
GATTTGACTCA	387.986189539862	0.356660452069461
GATGCCGATGAC	388.05505495307	0.290151908871016
CTGAATTATGAC	388.060894999037	0.557713267843972
GAATCATATGAC	388.067430349983	0.907927285787214
GAGTTGTATGAC	388.072737739468	0.5049507365918
GTCACACATTTA	388.080976449257	0.545079860604422
ATGTGGTATGAC	388.08270055564	0.5071822107923
TCATTTTCGGAA	388.112300863122	1.48768185965465
GTCAACACGTCA	388.142624494718	0.806153804238349
CATATTATGTCA	388.195605968836	0.651927443603143
CGTTGTGATGAC	388.208580011719	1.00698791804897
CTCAGGTGACAC	388.221377824657	0.453574497281759
AAGACTCGCTCA	388.225474598185	0.19315485836596
GTCATCTACTCA	388.23719460756	0.507405096028714
ACATATTGCTCA	388.241873034501	0.829992322293634

CCTAACCAGTCA	388.244622109162	0.774723793697301
GTGTCATGCTTA	388.246922740279	0.511413510476929
ATTTCGATATGAC	388.267322382192	0.641811620160103
GAGCTGTATGAC	388.2792426776	0.181185060227006
CGTCATTTACAGA	388.286285755777	1.17166836451602
AGTCACCTTTAC	388.340678621352	0.233465462563988
CACGTAGATGAC	388.349897004165	0.285043000156141
AACAAGTCATCG	388.398843550161	0.377549021646318
AGGTCGGAGTCA	388.449547826715	0.214225763297157
CAATTCTGACTG	388.465852983312	0.833789784563565
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GGGCCCTATGAC	388.55938645571	0.238660336854626
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GACTCACTGATA	388.655859671499	1.04310990194328
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AGTCACCTTTAG	388.833253084848	0.396093496376224
GCCAATCCGTCA	388.843536824894	0.123680325649989
CATCGGGATGAC	388.907398797382	0.50594193369087
AAATGGTGACGT	388.930052727453	0.293386656252109
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ACCTATTATGAC	388.97116729785	0.514382732406401
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CGTTATAAGTCA	388.990340858844	0.712377616435924
GCTTGCGAGTCA	388.994771216974	1.05908081640037
GACAGCGATGAC	389.045376281722	0.62345124075814
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AAGCGTGAATCA	389.110719082737	0.399828639887079
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GTCATATCGGGA	389.16556355833	0.703991657392927
GATCATGATGAC	389.182983628978	0.490360692702403
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GTCATACCTTGA	389.198095995925	0.432234666621435
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CGAAATCCGTCA	389.227736204564	0.588669864770794
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GCAAACGATGAC	389.443389687389	0.987830029643833
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ATCTTGAGTAAT	389.495814499559	0.577532469004092
GTGTCACGCAAC	389.519225295736	1.12062667657037
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CACGTCACGATG	389.565115459667	0.717102070519852
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CCTACCGAGTCA	389.572025890968	0.271387372220518
GTCATCCACGTA	389.572373373626	0.520656275179024
CCAATTGATGAC	389.595391666379	0.498236756562956
GTCATCGGTTTA	389.607326617312	0.458570914990636
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ACA ACTGATGAC	389.759253094718	0.690279466463203
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GTA AATGATGAC	389.793124254963	0.687535569189044
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GTA AACCAGTCA	389.880410939783	0.822288668058003
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ATA AATCTGTCA	390.034822240282	0.473279152684588
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CACTGTGATGAC	390.3694449801	0.447162063053427
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GTC AAGGATGAC	391.919150348747	0.204058461542908
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GTCATCCACCGA	392.041133800961	0.298715915036169
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CAGTCACGCGGC	393.724642054395	0.945890303157506
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AGTCATGGTCAG	393.948778483525	0.341595908976535
ATACCCGATGAC	393.986136719196	0.348272021231649
CCAGATACGTCA	394.009805729489	0.854413011009577
CACTTTGCGTCA	394.021561060398	0.532106443466695
GTCATCGTATTA	394.107777953237	0.643299324515096
GTCATCCTTGGA	394.11437452282	0.614665811933124
AGAAATTCGTCA	394.203108382221	0.2911705430605
AGCTTTACGTCA	394.221763445906	0.589681864129161
TCCGACCAGTCA	394.265822908519	0.567393412103736
GTCATAGCCCTA	394.330683474666	0.508960668241189
CTGTTGTATGAC	394.360855745661	0.550360601540414
ACGGACCAGTCA	394.362495064811	0.49867037659787
CCGTACGATGAC	394.365999038325	0.618418456699061
AGTCATGAGTTG	394.37422638408	0.410943602832184
ATCGTTGACTGA	394.399833404081	0.665341980088587
GCTACTTACTCA	394.418481189271	0.240059405553075
GTCATAGGTAAC	394.423146592528	0.368801016161964
AGTCACCTCCGA	394.439576751437	0.437346005982335
CGACCAGAGTCA	394.442616734479	0.853008182465272
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TGACGTGGATCA	394.470616580581	0.563318363188062
GACTCATGGCTC	394.524908927153	0.571142848987593
GTTGCCGAGTCA	394.542663511155	0.704753231698251
CATTGTTATGAC	394.579030492141	0.67514956254864
AGTAAATATGAC	394.588714682546	0.624579886483349
ACAGATTAGTCT	394.606276863241	0.398280753505186
GTCATCGAAGAC	394.637032773635	0.921854475885154
CAGATTAAGTCA	394.673496132463	0.665423598562311
CTGACTGGTGAC	394.677203681081	0.278105688557675
AGGCTCATGACT	394.793249224413	0.247522872673733
CAATGGGAGTCA	394.794151942088	0.709564538618112
GTCATATTAAGA	394.821691653607	0.257058027083409
GTATGCTATGAC	394.839151674367	0.589630301711621
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CTATGACTTGTA	394.921320458799	0.392998541896688
CAGGTTTACTCA	394.949753737791	0.675327153912816
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GACTCAATATGA	395.051355233053	0.413639140179978
AAAATCGACTCA	395.169545019489	0.709001652473611
GTCACACGTGGA	395.185894873746	1.02158187508865
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CGAAAAGATGAC	395.25889522634	0.584752001496294

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AGTAACACGTCA	395.372515264456	0.926502269969567
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GTCATCCCTTGA	395.373411315903	0.301331725911324
TGCCTTGACTAA	395.407205190041	0.48869813055906
GTCATCGGCGAC	395.417274760194	0.790322531231111
CTTGACCAGTCA	395.456225450834	0.538953729065986
ACTAGCGGTGAC	395.467340847107	0.44497706048048
GACAAGTCATCC	395.487210050764	0.449353544350275
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GTCATAACATGA	395.587025919581	0.812415085463518
GTCATAATCACA	395.615903246182	0.708746946847168
GTCATAGAGAAA	395.623763672889	0.521201262616846
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CCAAAGGGTGAC	395.691160205938	0.674353563299409
AAAGGGTATGAC	395.724427117276	0.519350824046593
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AAAGGCGTCATA	395.789633317035	0.308489029525617
CGAAATTGACTC	395.839829694927	0.611250616053302
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CGCACTTACTCA	395.913412125179	0.479480314300424
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AGACTTCAGTCA	395.956947810528	0.603506096995208
GTCATAACTGAA	395.977415117535	0.968524933098931
CACAGTAATGAC	396.024338618249	0.506781755603663
GAGTCAGTAGAA	396.030581038834	0.193949871493448
AGCCTATATGAC	396.038674779222	0.544399857374203
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ACGAATCCGTCA	396.088147027452	0.530317917712085
GAGCACTATGAC	396.126551340228	0.60699878274151
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GTCATCATTGCA	396.303245111694	0.447353633071591
CGCGCTCAGTCA	396.30477840921	0.920776785283645

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GCAACACAGTCA	396.350509663275	0.626990722287759
CACTCGTATGAC	396.354493283761	0.533884575318256
CTGCCTGACTGA	396.364531850807	0.690990777048135
GTCATAATCTTA	396.382025136561	0.356768915283099
TGACTGTTAGCA	396.391811752167	0.416252636425362
CTCAATGATGAC	396.402402248049	0.793034801690914
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GTCATCTCGACA	396.525319793292	0.645367297262973
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CAGTCACGCGTC	396.627311420446	0.496595616371439
CCTGACTATGAC	396.643556262784	0.318404005727068
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GAGTCAAAATGA	396.718129607458	0.598905214126039
ATGCTAGAGTCA	396.791771419257	0.692518999287534
AGAGGGTATGAC	396.795091623519	0.117923464148199
AGACTGTATGAC	396.797255943147	0.581003452300033
ATGACTAGCCAA	396.841409837775	0.21293876926049
TAGTGTGAATCA	396.906753570365	0.588883451676312
GTCATACACCCA	396.909356618348	0.398334297649988
CTTGTTGACTGA	396.937890597899	0.554439459852037
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GTCATCCGTACA	397.055010746833	0.523364876977273
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CTCTAAAATGAC	397.071197245517	0.382515100366108
CTGCCGATATGA	397.072276321213	1.33804134886946
ATGTGTCAAGCA	397.091781193937	0.306660621456622
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GAAC TTGTCACC	397.113654547951	0.498853619440573
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ATGACACGGTCA	397.260721224746	0.536054279326766
GTCACATCATGA	397.267657995034	0.779722048213703
ACTCGTGC GTCA	397.29884096363	1.01015982322154
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CAGGCTGTGTCA	397.386312184259	0.846219357828247
GTTCTTCAGTCA	397.407676461934	0.39865495115759
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GTCATAGTCGGA	397.565128661235	0.659441408356689
ATGACAAAGCAC	397.588824338271	0.487890775654955
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CGTGATAAGTCA	397.673780061037	0.703891404208852
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GTCATCACTCGA	397.787142831439	0.448457686903438
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GAAACTGCGTCA	397.910438927771	1.16398644429874
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GTCACGTCACGA	398.215788151483	0.131166014620199
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GTC AACGACTCA	398.804027984221	0.314146078493412
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AAA ACTGTGTCA	399.247681952725	0.616650004711102
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GTA AATTATGAC	399.618629329804	0.221506846504288

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TCTACAGAGTCA	400.707616438933	0.439624340107597
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GGCTACACGTCA	401.127966092328	0.701139909588963
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CGATGCTATGAC	401.150811736945	0.342294901483202
AGGGCTAGTCAT	401.154490708924	0.273269931076609
GACTAATTGTTA	401.171690479617	0.552432596814001
CACGGATGACCA	401.197497169156	0.783624128327446
CTAGCACAGTCA	401.2206008057	0.534474192198451
ATGACCCAGAAT	401.238566557161	0.283329113333631
AGACCTGACTCT	401.27388216881	0.590930167217552
AGTGAGTCTGAC	401.292943298544	0.328914247782124
ACTACGTAGTCA	401.298126008187	0.860872460272941
GTCATATGGTGA	401.310109183072	0.690683695778988
GACTCACTCGGC	401.377230983985	0.310670890968834
CCTTATTGCTCA	401.412058916833	0.395811035355215
GATCCCAGTAC	401.446980377762	0.666565328968331
CACTCCGAGTCA	401.479530527467	0.315120973311616
ATGACTAGCAAG	401.48639424078	0.409039952718125
CATGGATATGAC	401.49936431104	0.857205089984307
AGTATGTATGAC	401.507649264637	0.535957596269822
AGTCACGGTATC	401.524664732419	0.373045162067434
ATTGTTTATGAC	401.528638590238	0.765450669718162
ACGCATATGACG	401.540833673509	0.47836185348962
ATGACACGGTAA	401.551021256411	0.373462701694043
CAAGCTGCATA	401.555308922713	0.125086514980218
GTCATACAGCAA	401.56015012852	0.30109146783357
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GTCATTGTGTAA	401.679281096814	0.579428485394014
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CAATACGATGAC	401.711847218239	0.799361224037369
TGACGCAAAGAA	401.740532430269	0.208014106543208
ACTACTAGTCAG	401.741563455129	1.0193678014817
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AGTCAGACTTTC	402.022629535693	0.546782288534505
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GTCACCACAAGA	407.150310701289	0.537567165503644
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CACGATTATGAC	407.353943676671	0.247703796037242
CCATGTGAATCA	407.376155921976	0.813083160439421
CGAAAGTGACAC	407.393142618298	0.783945402540505
GCAGGGTATGAC	407.401783331836	0.578265059320898
CCACGTGAATCA	407.405460740393	0.412562714483581
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GCGCGTTACTCA	407.481517657174	0.805415945050854
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ATGACGAACTTC	407.504992387545	0.443385302053731
TCGCAATAGTCA	407.542422941024	0.574907738862189
GTCATAAATATA	407.545781226634	0.321376233261828
TCACTGGAGTCA	407.549180513645	0.639746744990336
ATATTGTACTCA	407.553013916369	0.227466407482811
TGAGTAAACTCA	407.565472874168	0.586620739827672
ATGACGTTATTA	407.566508052874	0.432132630737639
CACAAGTGAGTC	407.574489601763	0.966754944914511
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AGCGGCGTCATA	407.583547786927	0.279424655463149
ATAGGCGTCATA	407.603563481428	0.205323924576107
GAAAGGTATGAC	407.620095068843	0.111847397495472
AGAGGGGTGACT	407.653935597329	0.253867088907619
CAGTTTGCCTCA	407.659293927307	0.213050309176804
GTCATCGCGAGA	407.669936450583	0.492495722110405
AGTCGTGACTGC	407.674413158801	0.719935148702103
GGTGAGTCTGAC	407.692262602273	0.355522392353961
ATCGGTGAATCA	407.694832234169	0.491087090022016
ATGAGTCCGAGG	407.735639398788	0.46069769043271
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CGTGCTTAGTCA	407.773270190667	1.33968593992692
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GCACAAAATGAC	407.80052112059	1.0090184369561
ACTAATGGGTCA	407.835456217143	0.418125361493276

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GTCAGTAATGAC	407.898185616781	0.435419393973339
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GATCGTGCCTCA	407.945425217747	0.924662657861159
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CAGTTCGATGAC	409.17628578329	0.864887320601363
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GCCACACAGTCA	413.365942576474	0.649811094621502
GACTAATCTTTA	413.376868655665	0.872622089082021
ATGTGCTATGAC	413.395259207959	0.85726628230341
CATGACGACTCA	413.420513045317	0.222693734533776
ATGACTTGGATG	413.439339428612	0.472608626041842
CACGTTGATGAC	413.465424923646	0.826647633339155
GATGCCGTCATA	413.47773521377	0.244668319792332
ACCCTTGACTAA	413.488741916467	0.298631557821689
GTCATCGCCTTA	413.497454325424	0.222832307397721
AGTCACTACTTA	413.51791089558	0.598412813545635
AATAGTCAACAA	413.544026310937	0.543209443810814
CCGACATAGTCA	413.578394387595	0.361360617441336
TCTTAGTAGTCA	413.582072136021	0.667951364835995
GTTACATCATCA	413.645926040279	0.442792535945936
TGACACAAATAA	413.661147463495	1.01922558234946
GTCATCCGCTTA	413.671004878378	0.345575567899143
CGTATAAATGAC	413.699731088817	1.35454421555718
CCGACTGCGTCA	413.709960494895	0.30243428831605
CCTGGTTATGAC	413.744221976148	0.722253246196758
TGACGTATTCAA	413.765013425727	0.464338365317924
TGACATATAAAA	413.770662932769	0.508010551876558
GCTGACGACTCA	413.788971567849	0.563801804959539
ACTGATTTGTCA	413.835238618747	0.951263425190242
CCGCTTACGTCA	413.836969893297	0.463625995558175
GTCATCACTAA	413.942899864396	0.233611538321547
CGACATAATGAC	413.968163493274	0.700183741257363
GCTACTGCGTCA	413.994699766797	0.601714084452405
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GATGACAGTATA	414.027848968436	0.182229302182771
ATCATGAATGAC	414.048347242747	1.18349231860281
ATGACTAGCGAG	414.075513007323	0.229038633091247
TCCCACGAGTCA	414.099261522425	0.39958159744677
TGACACCAGTCA	414.114705829133	0.623408115348956
GTCATCAACAGA	414.135257340326	0.659156853061191
ACTCATTATAGG	414.183943691824	0.924423488690743
ATGACTTGGCCA	414.20984810382	0.379793492274511

AGCATACAGTCA	414.260583299023	0.857833549783758
ATGATGTGGCCA	414.280928545904	0.32237238991829
TGTGTCAGCAAA	414.287971341076	0.524185318158206
CATATAGATGAC	414.298374999854	0.706160236748711
AGCACTGTCATA	414.327828046133	0.496958460418389
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GTCATCACCGGA	414.382363891554	0.474236147478694
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GTCATACCCACA	414.478686040418	0.618613814211132
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GTC AATTGCTCA	414.576569223077	0.676547711067367
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GTCATTCGCGGA	415.13234016499	0.45680084102554
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GTCATCATTGCA	415.791684479332	0.363041466584024
GAGATCTATGAC	415.800106265984	0.365333906534357
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ATATTCCGATGAC	415.827291632413	0.715088893076863
CACAAGAGTGAC	415.862271547096	0.596045150767847
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GGTCTTCAGTCA	416.325407965077	0.508806344686359
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ATGACGTTATAA	416.590198695191	0.215559287630132
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GACACCTATGAC	419.659936753515	0.396204500826556
CGTAATCTGTCA	419.697627137302	0.907527278201423
CCAATACAGTCA	419.73519266297	0.785400755240992
GTCATAGCGTGA	419.74456238821	0.750436308827309
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GGCGGACTCACA	419.775562480266	0.364502013660723
GTCATCACTTGA	419.782441418239	0.733782482240503
ACGATATATGAC	419.831735934158	0.546073479241123
ATGACGAACAGA	419.883827864869	0.403021403310909
CGGAGCGATGAC	419.921532684954	0.733243428066579
ATGACCCAGATG	419.925790296324	0.729933670477765
GTCATTATTTTA	419.926027510904	0.626114080144973
CAGATGGAGTCA	419.937776509508	0.769859582443319
ATCGTCGATGAC	419.968644024787	0.806169996678103
AGTCACTAGTAG	419.969433538084	0.342020626478204
CGTCATTTCCGGA	419.973588237741	0.471939733891929
CTGCACGATGAC	419.980764302119	0.622987505911073
CCGGCTCAGTCA	419.990788069207	0.749528929905575
ACTCCCAGTAC	419.998583786135	0.431009023826375
CTCAGCGATGAC	420.02805372065	0.862813822636378
GTCATAAAATGA	420.046497103444	0.382151209799336
AGTCACCTTCAT	420.054192960116	0.449992724500658
ATGACAGTACAT	420.066626155231	0.442241705413032
GTCATAGGTAAA	420.086354816902	0.405799471885252
GTCATCCATTTA	420.089918007581	0.535400667589294
GTCATAACATCA	420.094115225516	0.411318038161939
GACTCACGCAGA	420.103803819979	1.18815513600976
GTCATACAGAGA	420.127037970558	0.417281734965704
GTCATAGGATAA	420.134095737206	0.599942941814435
AAACAAGACTCA	420.163286952388	0.600640461888933
CTTAGGTGACGC	420.166098415616	0.494520879144946
ACTGTCTAGTCA	420.178095914263	0.347336787419631
GGTGACGACTCA	420.369336486509	0.738781733951577
CACTACGATGAC	420.372814210189	0.565011010505206
ACTCATACTTGA	420.415460253673	0.276211730030537
GTCATAATGAC	420.434034682138	0.803803176986244
CTGTGCAATGAC	420.436273119991	0.783124703832804
GCTCCTTAGTCA	420.447985682644	0.640448339338421

GCTTGTGATGAC	420.485856217539	0.342254674580968
GAACATTGACTC	420.542218261144	0.759672252419063
CTAATATATGAC	420.551491624347	0.300617365690478
AGACCCATGACT	420.553740898912	0.564482379021316
CGCTTGGAGTCA	420.555695508779	1.01182217651768
TGACGTCAGACA	420.561169010407	0.568186472109643
AGCTCCGATGAC	420.562463449627	0.354762970307759
TATGACAGTACA	420.569737100518	0.530802529603458
ACTCAGGATGAC	420.599558171884	0.730151516599292
TCCACGGAGTCA	420.618390967191	0.546457213825129
ACGTTCTATGAC	420.664301052093	0.778299624800471
GTGGCTTACTCA	420.68608339741	0.80567839632331
ATTACTGTGACG	420.806379978121	0.521296777557095
AAACAGTGTAC	420.845000370656	0.353567207629322
CTCTAGGATGAC	420.866609360826	0.80968034383329
TCAGTCAGGAAA	420.880856971358	0.202302326057003
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ATTGTGTATGAC	420.907341525262	0.507699692567399
TACACTTACTCA	420.950332178958	0.214241943136513
CTTGCGAATGAC	420.963554140593	0.881439250445915
GATCTCTATGAC	421.022815699115	0.745180481103804
GACTCACTAATC	421.026138620233	0.636205483313171
ATCAATTATGAC	421.028144797292	0.0685720554464864
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ACCCTTCAGTCA	421.092161566423	0.355502722067861
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ACGTTTGTGTCA	421.174467439615	0.802559101186135
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AACGCTTATGAC	421.242159484007	0.6857225707065
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CACTTCGTATGA	421.552634370353	1.17486519500663
GTCACATCTGAC	421.575447224098	0.53835309644694
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GACTAATTTTAA	421.67091544271	0.609986280021176
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CGAAACGATGAC	421.690407449709	0.863479390024653
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ATCATCTGTGAC	421.724495784047	0.613827890903899
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TCGTCCGAGTCA	421.814081558926	0.81372184204766
GTCATCGCAGGA	421.817637903616	0.80530263958714
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GTCATCACTGAA	421.959877353827	0.792528138814819
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GGCCACATCATA	422.006976949596	0.344428262986076
CGTGATGGCTCA	422.007100351135	0.99181104176897
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CGAATCTAGTCA	422.053315904313	0.668594088654238
GTCACACGTCGA	422.083889351444	0.683329503097165
CGTTATGATGAC	422.090507484578	0.727177519110167
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GTCATTATTTAA	422.180223779151	0.426835484741495
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GACGAATTAGTC	422.962550591049	0.789248414796918
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GCGTCACGTCA	423.121961184468	0.476963590818132
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ACGTATTTGTCA	423.283323786501	0.580806899277621
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GATGACGCCTCA	423.610540758571	0.645683689054587
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GAGAATTATGAC	424.386032050049	0.280804928080227
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GAGTCAGTATTA	425.690268339497	0.260570360435936
GACTAATAGCGC	425.702972473481	1.6661446018315
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CTTAATGATGAC	425.778148408895	0.658625861648993
GCGCGTTAGTCA	425.787432186906	0.385936964964001
AACCGTGATTCA	425.811606564447	0.725020857538248
AGTATATATGAC	425.81384383501	0.677262008142624
ATGACGTGATTC	425.822671124249	0.361282489080029
GTCATTCCAGGA	425.824975773307	0.414546912331575
AATAGGTGACGC	425.835998722387	0.698346904981043
GATCGCGATGAC	425.842610179447	0.402817217935768
CGCGGTGACCCA	425.858633540144	0.488801249522666
GGTACGTATGAC	425.860702264746	0.623947617614445
AATTTATATGAC	425.900385885471	0.788858546787901
ATTACTCAAATC	425.936070674398	0.241561708656447
GATGACGTCGAC	425.944211215746	0.591216456726204
AACTAGGATGAC	425.953672192395	0.60286034376961
TGACGTGTGTAA	425.975538198292	0.502968261551163
TCTCATGAATCA	425.976192380864	0.579392275416048
GACTAATTTCTGA	425.999169852024	0.596332330344145
ATAAGGTGACAC	426.028569819451	0.508739380942453
TCGCGTGCCTCA	426.034778804191	0.513740417460175
CTTTGCTATGAC	426.066743809515	0.620900159697694
TCGTTTTACTCA	426.069101281386	0.670634150208656
GTCACCGACTGA	426.080999609759	0.745913202968217
ATACGTGAATCA	426.086814391864	0.962929894106637
CCGATTATGTCA	426.108320456133	0.848622105296812
GTCATCTAACAA	426.184310305824	0.735117242082636
AATTCTGATTCA	426.226503746937	0.48618649864255
GTATCTACGTCA	426.255591172647	0.490098899776275
TGAGTCGATCAA	426.267092117669	0.578461576072962
GACTAACTATGA	426.318845108747	0.989875946945579
CACGATCTGTCA	426.321371023513	0.803206740514991
GTCATAACGGGA	426.323160341075	0.537663159178599

ATCCAAGTCATC	426.329256366614	0.449460854837093
ATGTGTCAAAT	426.346471783782	0.320411103398697
CAGAGGTGACGC	426.346910360973	0.349570717488019
AGTGGTAGTCAC	426.367985482683	0.483658449255745
CGTAATTATGAC	426.38176062671	0.449496352879845
TGTCATTACTAA	426.406753684942	0.502850580340687
GTCATACACCAC	426.407117686679	0.248955385464756
GACTAATTCGGA	426.410548575465	1.01518374686565
CGATCGTATGAC	426.414086481224	0.153702311492835
GTACACATCATA	426.434314479776	0.488836339851842
GGCCTCTTATGA	426.448711631726	1.39783513269011
GTCATATAATCA	426.482823200154	0.39991388685318
AACAAAACAACA	426.502073486167	0.81947683895544
GACATAAATGAC	426.507982698356	0.255358561115566
GTCATATAGCCA	426.510318374529	0.914219360524906
TCGGATCTGTCA	426.518127280374	0.364262107604058
CGTCATCAGGGC	426.538982281512	0.670111418812056
GTCATCGCAGAC	426.548245026386	0.406331352731853
GACTAATCATA	426.554709535141	0.493542392011833
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GTAATCTATGAC	426.64317124436	0.5820634761315
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GCCTTGTAGTCA	426.643862067235	0.570834205817407
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GTCATCCAAATA	427.077388162451	0.625188915207566
ACTTGTGATGAC	427.084048061356	0.180999563399396
CGTCATATGAGA	427.108727129424	0.454294041550613
GGCACGGATGAC	427.132729234974	0.352115629236784
GAGTCTTCGTCA	427.149948076861	0.750881910838051

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CTTATCGGTGAC	427.178486832794	0.595789866585389
GTCATCGTGAGA	427.179167431044	0.327308083811225
CTGACGGATGAC	427.190543087604	0.503414721029297
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GTGAGTCTGACA	427.290651264675	0.433425406145713
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GTCATCCATCTA	427.329944633307	0.394836818764805
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AGCAGGGTGACT	427.487653361352	0.403668542212334
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AGTCACCCTCAC	427.500810498276	0.329316713860369
GATGACGCCCTAA	427.528608786354	0.405325840433764
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GACCAATATGAC	427.57108581459	0.641963344093102
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CCAATCGGTGAC	427.821994443707	0.358501544029073
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GTCACCACTTGA	428.01753798492	0.563257539373155
AGTCACCCCATG	428.03137588864	0.46290588421912
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ATGACTTGTTTG	428.195028678645	0.427694662268072
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ACTAATCCGTCA	428.692820405511	0.427641344762292
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GACACTGCGTCA	430.469268169625	0.606542532515595
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TCTAATTCGTCA	430.61780665455	0.421501163069163
CGTACGTGAGTC	430.619153041486	0.883240664937111
TGACGTATACAA	430.621325476083	0.931851861995169
CCCTAGTGAGTC	430.6220575452	1.26881298977573
AAGTGGGAGTCA	430.623158202158	0.151863871036321
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GCTAATGATGAC	430.690310772912	0.296904694608001
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TACTTTGTGTCA	430.748961346711	0.223586985409948
TGACGCAAGTAA	430.782888345082	0.530080117103342
CGTCGGTATGAC	430.803817944566	0.640453174578008
TACAATATGTCA	430.81325150762	0.604352651656975
TCGTTTACGTCA	430.831961900608	0.310851546222648
GATTCATGACCC	430.835179230431	0.874723076286179
TGACTGAGGCCA	430.860371319242	0.632759542528144
CTTCGCGAGTCA	430.874436238556	0.637265262168074
CGCGTGTAGTCA	430.916849126604	1.34152927721242
CGTCATCGGTAA	430.918340782185	0.451769176199099
CGTCATCAGTGC	430.927685852127	0.667353760320129
ACCTTACAGTCA	430.97981859766	0.574893808729291
GTCATCTAAACA	431.001112169592	0.747411846018126
TGATTACCAAAA	431.036504991668	0.328335907273494
GTCATATAAACA	431.074669843839	0.696759706937999
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GTCATCCTACGA	431.129406555598	0.343861768827826
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GTGACTACCAGA	431.192448363401	0.527997508526706
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GCGCTAGAGTCA	431.221826634602	0.669369812595279
TGAGTCTATACA	431.281420344264	0.794346778743666
GGTGCCTATGAC	431.292406598202	0.803135399421662
TGACACAGCCAA	431.2978877199	0.498206908223102
ACAATTGATGAC	431.29791042875	0.38449028758526
CGTTAATATGAC	431.321004034123	0.520945449109805
GGCAATACGTCA	431.349764189197	0.353735011102418
GCCACCGGTGAC	431.467533793451	0.689273733833328
GAGGATACGTCA	431.49423113864	1.32838675199239
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ATCTGAGCAATC	436.101559838937	0.480206616772103
GTCATCGCGAAA	436.102820178451	0.662982937599816
CCGGGATATGAC	436.104323276425	0.246618662237263
AGTCACTAGGAT	436.143364357729	0.540304328951469
GACCTGTATGAC	436.171978974831	0.229749798087323
GTCATAGAACGA	436.206121916954	0.718691223973199
AGCAAGTCATAC	436.222338077449	0.629125043089898
GACCTGGATGAC	436.232258124941	0.334218853554155
AGTCACCTTCAC	436.23324410282	0.308182466801966
GACAATGATGAC	436.304737814612	0.540876270873674
CGTCATATGCAA	436.322210231237	0.955580922463435
GTCATTGTTTTA	436.358369202134	0.383995376008332
AGAACCAGTCA	436.358761657782	0.238992819462922
AGACTCACGTCA	436.365211374095	0.213332417634259
CCCTATACGTCA	436.379559203378	0.570856979101706
TCACCGGAGTCA	436.398863836829	0.870508003794609
ATCACGTATGAC	436.41611358494	0.278174129612565
GTCATACCCAGA	436.424316506457	0.929051070510416
AAACTTCAGTCA	436.43849671633	0.314376252366176
CGCCCGATGACG	436.445609354723	0.706092543081964
CATGTCTATGAC	436.468626599591	0.952019030310415
AGAGTCTATGAC	436.490329613173	0.531775091094334
AATAGTCAATGG	436.49345586462	0.431281451759304
GCTTCCGATGAC	436.528463586215	0.445389160355188
GTCATACCACGA	436.547730362248	0.583478667718421
ACGTATCTGTCA	436.548866925302	0.450255769253528
GCCCTTCAGTCA	436.556355547078	0.201237687921261
GTCATAACGGAA	436.573788683446	0.269495115898516

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ACCTTGATGAC	436.583517435137	0.476854883802695
TCTGATAAGTCA	436.585155730821	0.464734909590979
CCGATTTATGAC	436.668744991022	0.588567090867424
CAGGATCCGTCA	436.685617437559	0.316369253887929
ATGACGCGCTCA	436.70133905125	0.435841619565828
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CACGTGTAGTCA	436.73813912155	0.404548326475172
GCGAAAGATGAC	436.748200701004	0.526926959901931
CTCGTGCACTCA	436.768236355899	1.04200145611496
ATGACAAAGAGA	436.800733036077	0.446973890906347
GGTGACACGACA	436.807233611046	0.236590299857848
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ATGTGTCAAGGC	436.830453790679	0.190861892425946
CAGAATGATGAC	436.848920379127	0.252282339548664
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GTCATAACCATA	441.454736722001	0.489147928310123
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GTCATTCTGAAA	441.491765290372	0.942320917462682
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ACCGAGATGACG	441.589908179383	0.216635465630658
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ACTTATCTGTCA	441.618274427867	0.400716679245864
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CGTACCGATGAC	441.632051203262	0.452654091274488
CGCTCGTACTA	441.635493967553	0.418132965873273
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GAAGCGTACTA	441.65542839269	0.439603957404042
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GCGGAAATGAC	441.800582575307	1.35535401094653
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CATACTGCGTCA	441.884299104571	0.732153959665917
CGCGCTGGTGAC	441.906703139044	0.824449736339673
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GTCACACTGGAA	441.983894941583	0.49722328464124
AGTCATGAGGTG	441.988910946288	0.208224544042281
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GTCATCGTCCGA	442.016748003538	0.582167845747944
GTCATTCCATAA	442.019255483951	0.733656944310634
GTCATCTTTAGA	442.031484330318	0.480729485141783
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TAGTATACGTCA	442.052536992864	0.364915738851691
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TCGAAAGTGTC	447.193210585277	0.82574404107793
GAGATGTATGAC	447.222292122673	0.199479783641707
TGTCACGCGTAA	447.23366051379	0.773740353985973
CATCTATTAGTC	447.279850842519	0.845740475195531
CGTCAGGATGAC	447.288164843773	0.614568731657695
GGGACCTATGAC	447.311934532316	0.404240475684794
ACTTTACAGTCA	447.323693884872	0.229470402498634
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GTGACGCGGTCA	447.336581164342	0.270836927689587
ATGAGAGTCAGA	447.345728630432	0.215621487100169
GTGTCACAAAA	447.351438286461	0.71041687948772
GTCATCCTCAGA	447.353594394662	0.516902463422694
CGATCATGACAC	447.362935816582	0.458457871199528
ATAAACAATGAC	447.3652821404	0.660431727121222
AGATCCTATGAC	447.414070670565	0.692223673452713
GTACAAAATGAC	447.418363575021	0.356748446307496
AGACTCACGAAT	447.454840862849	0.548493773429856
ACGTTTGTCAT	447.472631338245	0.174046648253508
AACCTTGACTAA	447.489363247018	0.25985534553678
ACTCATGGTGAC	447.498756449067	0.710606615902603
TGACGGATTGCA	447.505963543255	0.644277307771621
CAACTGAATGAC	447.506589542752	0.473133390804013
CGATTACGAGTC	447.508797587971	1.35320772035074
GCTGTCCAGTCA	447.52348767002	0.52161421842296

TCGTTACAGTCA	447.529838148479	0.54023124866911
GAAGAAGATGAC	447.546287918851	0.220693009744233
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CTAATTTTCGTCA	447.588203717012	0.376313371510074
GTCATACGTTGA	447.620129051889	0.533960090216885
GTCATAGCACTA	447.663272299938	0.598525287708048
ATGACGCCGCGA	447.686144510342	0.425169723755854
GTATAGAATGAC	447.690566125662	0.218201473861698
ATGACGAGCTTA	447.711055978953	0.407587361173863
GTCATCCTAGGA	447.727436704081	0.83548846935576
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ATATATTGTGAC	447.761676846782	0.695270644252074
TCACAAGTGTGA	447.774571427036	0.653742425537195
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CAGAACATGTCA	447.794676445164	0.779735638451289
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AAATATTGCTCA	447.852591141438	0.656677732681854
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CACTGGTATGAC	447.864738408626	0.598261857154977
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AGGTACTGTCAT	447.928382320454	0.149230068929764
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ATCCGTTATGAC	451.800726394462	0.563978534758011
CAGCTGAATGAC	451.815381103488	0.521020468226086
GAAGAATTAGTC	451.823493425259	0.392622995048989
TGACTGCGCAAA	451.849557181058	0.596013271634182
TGACTTGTCA	451.880823538977	0.452613736365406
AAGGACTATGAC	451.881299211028	0.564372468285936
GACTAATAATTA	451.88234485003	0.615507582656651
ATTAGCTAGTCA	451.889280520328	0.489422522198583
CGACCATATGAC	451.893746485731	0.424094826108268
CAGGTAAGACTC	451.898376628675	0.768870330110724
ATGACGACGTAA	451.908672522894	0.301896119309373
GTCGCTGCGTCA	451.922563339706	0.853488450784378
CATTGATATGAC	451.93901647451	0.69931308898276
ACTCTGGGTCAT	451.944070243323	0.340021595110158
GCCTATTGCTCA	451.965154769547	0.340799654589052
GTCATTCGATAA	451.967106336482	0.426234167801475
CTGGTATTAGTC	451.970710130306	0.636312409079873
AGTCACGCGCAA	452.014428389629	0.3891212224466
TACTCCGAGTCA	452.035250084385	0.446717963149291
CAAATGAATGAC	452.106464226931	0.947927509016031
TGACTTGGTCAA	452.112755429155	0.688165607384247

AGTAGATATGAC	452.171007671547	0.216812016400921
GTCATAGCCGAC	452.179100412358	0.373390598704978
GTCATATCGAAC	452.185790946539	0.490631938997056
CTTCCGTGACTA	452.189716152244	0.150483013949428
GAGTCAGTATAA	452.191564961246	0.310281855987906
CGGCATTATGAC	452.216848692612	0.460860891443247
GAGAATTCGTCA	452.262871625441	0.394328574426504
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ACTGTGGAGTCA	452.319260553437	0.881894610214111
ACGAGGCGTCAT	452.363631073952	0.54370248577397
CTGATCTTATGA	452.368525294669	0.791302198160423
TCATAAGTGTCA	452.380919412696	0.734301428485136
CTGATGCATGAC	452.386732287208	0.825772446446839
AGCGACTATGAC	452.390369369399	0.130049485771248
AAAATTGATGAC	452.391723867967	0.721526212202075
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CATGACTTGGCA	452.570863033369	0.45241797529056
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GGTTACTAGTCA	452.72130300663	0.678423480237254
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TGAAACGACTCA	452.824365279562	0.869263238540093
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GTCATAGGAACA	452.947661795089	0.600640867390457
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ACTGAAAATGAC	453.225292141446	0.531051138526648
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TGAGCAATTTAA	453.509330935304	0.779647323631386
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GTCATCATGGCA	453.525761194921	0.466789979944252
CATGATACGTCA	453.551476059635	0.49257801991601
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CGTCATTGTGAG	453.724242129545	0.76392055220914
CACGACTAGTCA	453.732903613671	0.539825938300241
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CAGCTGTATGAC	453.759223543249	0.668788386506342
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GTCAACTCGTCA	453.85710870065	0.577533657195628
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CAGTAGGATGAC	454.30075227993	0.582484432242926
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GACTAAACAGTC	456.942161573009	0.981879623204581
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GTCACTATCTGA	461.515103781741	0.267299007571589
CGTTGCTATGAC	461.51985268671	0.602767146472182
CTCTTCGACTCA	461.538222829128	0.517502718320039
TCATCTACGTCA	461.541930409928	0.620629008356891
ATGATGTAAGTC	461.559008861317	0.420836137954589
GTCATCTGGTGA	461.566357511785	0.391813572393868
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CCTCTAGTATGA	461.597344691852	0.932603815711744
CGATAGAATGAC	461.615157767043	0.486141274705489
GTCATCCAGTGA	461.62388410186	0.770886729452102
ATGATGTGTACA	461.636528687403	0.381346757072657
GTCATATTGCCA	461.636856872009	0.641216890785336
ATGACAGAGCGA	461.649311063499	0.16834964188132
GTCATCACGAAC	461.656127785169	0.943870797649472
ACATATTATGAC	461.663327091504	0.31144400957546
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GCACCTGCGTCA	461.693483727436	0.460339395660295
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CAATTGGATGAC	461.729032309158	0.615206352311859
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GCCCGGTATGAC	461.776617107751	0.411687656195838
GCCCACGGTGAC	461.777190504369	0.703840206649476
CAACTGTAATGA	461.783452174463	1.16186186233315
GGCATAGATGAC	461.800158287074	0.290783970613987
CGTTTGACTCGA	461.811250786695	0.340305614999873
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GTCATCTATAAA	461.884149531673	0.359076465702947
GCCTTCGACTCA	461.901281642962	0.48185794345842
ATGACTTGTGAC	461.91833220332	0.571993163102177
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GCAATCTGTGAC	461.966022841224	0.827429395514773
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CATTAATGTGAC	462.00925133772	0.640391741644841
GCTTTCGACTCA	462.04472091069	0.473479454304999
GTCATCTTTGGA	462.054724769718	0.671888599000565
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ATGACACGGCTA	462.13507408238	0.216630392879976
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ACTCATTTGTCA	462.189794339228	0.351809613315299
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ACATCACGTGAT	462.532352171847	0.517389385541548
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GTGAGTCGGTCA	462.591042045303	0.5235035627805
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TCGATCTAGTCA	463.259541434492	0.305788107708442
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CTCTGATATGAC	466.22374698156	0.35249915565682
CGTCATGAATCA	466.224732571445	0.509409631739888
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GTCATAGGCAAA	466.472684471829	0.673999258200574
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GTCACCACGTGA	466.694014228822	0.798583069700517
TCACCTAAGTCA	466.695218963842	0.436236899242609
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ACTGACGCGTCA	470.888928387478	0.457407399971103
GTCATCACCTAA	470.91183979559	0.352003489633587
GTCATACCGGGA	470.912628750635	0.333381539207647
CTTGAGGATGAC	470.925430757624	0.437269684542988
AGTCAGACTTAC	470.935047719306	0.468160395447465
ACTGGAAATGAC	470.95877309848	0.363495489032699
TCACCGGTGACA	470.96882206126	0.517583173873148
CCCCGATATGAC	470.986882508804	0.427149128961807
CGGAATCTGTCA	470.995149530943	0.368462822127764
ATTCATGATGAC	470.996955180173	0.644090307577318
AGTCACTACGTC	471.016341263283	0.321293222264928
CACGAATTAGTC	471.01802891955	0.336162805381498
TGACAAATCCAA	471.030701901448	0.643495619429376
CGCCTAGTGACG	471.03382793103	1.63180924696805

ATGACACGGATG	471.076797182951	0.614283164965904
GACTATTGAGTC	471.082858345272	0.859652029366615
CTAATCTATGAC	471.095073318141	0.437187009403933
GTCATCGCTACA	471.105866992478	0.319343588482225
TGACTACGCTAA	471.109721842093	0.774192349696429
CGTGGATATGAC	471.11360460573	0.714066768672308
ACATACTATGAC	471.123079386666	0.538673628180553
AGCAGTGACGTG	471.137012151585	0.512412834308214
GATTCTAATGAC	471.143057560078	0.807495396594587
GCCTAAGATGAC	471.177321551611	0.413186469866496
AATTCGTGACGT	471.222765193473	0.830527929029731
CTAGTCTATGAC	471.231725172677	0.38991124108192
CATGCTTATGAC	471.262162479897	0.591285406822167
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AGTCACCCCTCG	471.342878514461	0.441809416814951
GTAGAATATGAC	471.369413570282	0.290934186482303
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ATAATTCATGAC	471.406732671123	0.600841195177477
CAAGAATATGAC	471.412176328989	0.580709053736984
GATGCATGACAC	471.427955023989	0.66263540415559
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TGTCATTAACA	471.507357606031	0.55099056355621
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AGTCACGCTTGG	471.524073169263	0.341706953928403
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GTCATAATACAC	475.168171831886	0.631233705617188
ACACTAGATGAC	475.180415706806	0.69864946463341
CTTAATTGCTCA	475.183938348559	0.441811771835196
GTCATCCGACGA	475.186531577717	0.697011504719156
ATGACAGCTTTA	475.197172007603	0.40932123593134
TCTGTCACGTCA	475.198203256244	0.414388701987533
CTCGCTAGTCA	475.236166623805	0.46273064397534
TACATTGACTGA	475.243035816463	0.465368725233962
AATTGGGAGTCA	475.247387648364	0.283013906682485
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ATATGGTGACGC	475.255752131957	0.509576855710092
AGTAAATTAGTC	475.258174835014	0.466179262086144
CTACTTGACTAA	475.258374119603	0.212308738386712
CGATTTCGATGAC	475.266515930895	0.78505626315408
GTTTCGTGAATCA	475.272165515838	0.468661336863409
ATGACGTGATGC	475.275159990768	0.487721801838559
GTGACACTGCAC	475.302035730521	1.03851794211427
TAATAAGTGTCA	475.306514758089	0.603713399601312
ACGTCATGATTC	475.308418962673	0.164552539721753
AGTCACTCTAAT	475.318057716208	0.285179541636056
GTCATCTATGTA	475.324463499043	0.410735632254576
ACTCATAAGTGA	475.326067094663	0.564984723717388
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ATTTCCACGTCA	475.353582075627	0.258716915974307
ACGATTCATGAC	475.357970528	1.05978464180624
GTCATCAGAGAA	475.36116314835	0.77230219089435
TCACAGGTGACA	475.36809561116	0.586677629106882
GCACTTGATGAC	475.381512152782	0.566781193831871
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CCGATAGATGAC	475.455195021492	0.589698571936073
GAGTCCGAGTCA	475.491049454651	0.648779239528111
CCCGCAGAGTCA	475.492918714899	0.521519812495709
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AGTCACCTCCTC	475.536510673338	0.265819262680625
GTCATTCGGACA	475.551968741881	0.682229348024884
CAGATAGATGAC	475.559490307753	0.330193822162834
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AAAAGGGAG	479.221894869501	0.273378795574378
GTCAAATCG	479.224576836521	0.578054263037615
GTCATTACAG	479.279985978356	0.735928135211805
GCATAAGAT	479.287564936765	0.719668784061035
GTCATCATCT	479.304388887548	0.414950132722273
TCAAACCTG	479.305683793285	0.447632386750601
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ATCCCTGTC	479.329162419672	0.286652402701893
CCTAGTAAT	479.351575697995	0.917929969525566
AATATACAG	479.360830927441	0.77522778389923
AGGCGTGAT	479.364846180693	0.307571035829483
AGTCACTCA	479.367189356463	0.165407699792508
GAGGCCTAT	479.370959043489	0.565744719469632
AAACGGCGT	479.373434354686	0.340660103893424
GACTCACTA	479.380093078799	0.31022174446909
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GTCATATGGCAA	479.380473968991	0.351014258695103
GACGCCTGACTC	479.385068086555	0.346563206798646
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CAGTCATGGGTA	479.434411843263	0.139344613306872
ATAACTACGTCA	479.436439738637	0.725125898173575
ATAGACTCGTCA	479.439687222415	0.757365927426961
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GTCATCATTGGA	479.448105963548	0.503811031135557
GCTACACAGTCA	479.470335909933	0.465084218610765
ATGACGTCGTCA	479.477398976532	0.639507646952243
GATGACGTCTAC	479.483405435862	0.359322763779731
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AGATCTCGTCAT	479.595289766952	0.392287333854335
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GTCACACCTTGA	479.625076330591	0.263868067985807
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ATGAGTCGGGCA	479.651298456048	0.283062758080433
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CCTAGAAATGAC	482.817754518016	0.621196002321594
AAGCTCGATGAC	482.836709918917	0.158305424773271
ACGCTAGATGAC	482.851665520468	0.558885268060522
CGCTTTGTATGA	482.875111019094	0.958791670331621
GTCATATAGCTA	482.878013120026	0.573981960541483
ACCACCTATGAC	482.892391426357	0.396290116460138
ACTAGGGATGAC	482.899828774873	0.732347828616

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ATGAATCAACCG	482.913299511308	0.561278939215461
ATCATCGGTGAC	482.943490145352	0.460185352257064
GCAACTTATGAC	482.948927917441	0.81513667988011
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CAATCATGACAC	483.01242880234	0.416292330575557
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AAAGCGTATGAC	483.088414786391	0.48379251690653
CGTCATCGGTAG	483.091717917964	0.306115772589936
AGGATCTATGAC	483.118635256172	0.643776625947906
CAGCCTAATGAC	483.138809820047	0.646573573415038
GCGACATGACAC	483.148618199154	0.546717812591604
ATCTCACAGTCA	483.152848966746	0.350440045430279
TGTCATCTGTAA	483.169422680204	0.574087904572271
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ATGACAAAGTAG	483.20577612958	0.272401826308128
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CGAGCTGTCATA	483.23251924019	0.345986092541647
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GTCATCCCAAAA	483.256308930993	0.376168336604556
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GATCTTTACTCA	483.303406859578	0.53443075205945
TCTATACAGTCA	483.308834167158	0.300881162660254
TAACTGACTGA	483.321730354659	0.223954033172842
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GTCACTCTGTCA	483.365215560026	0.312520977980973
CAGTACTAGTCA	483.38336077621	0.466306148463696
AGCAAGGATGAC	483.38555288291	0.349814582083492
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GACCGTTACTCA	483.441508307401	0.488593670406905
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AAGACAGAGTCA	487.009437884202	0.211203874925788
GGGATACAGTCA	487.010176258888	0.333647319938528

AGTACTACTCAT	487.018353385581	0.547123731845546
ACTCATATGTCA	487.02776893377	0.425183079377033
GAAACCGATGAC	487.030885810839	0.723088641022118
TAAACTTACTCA	487.093719951191	0.330803863248369
CAAACAATGACG	487.118916586251	0.870721937467901
CTTGATGGGTCA	487.118993704434	0.622078717512431
TGAAAAGTGTCA	487.134939143058	0.386046383360709
TGAGTCGAATAA	487.137764823168	0.451536992063684
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GTCATTCTATCA	487.214951141498	0.542535503810614
GTCATCCGGTCA	487.231788140008	0.525049166476772
CGATAGTGACAC	487.246019005703	0.71489290057599
GAAGTAGAGTCA	487.275286897533	0.472881976484355
ATTGACCAGTCA	487.275678042239	0.680262448351042
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GTCTCATGACAC	487.327317319733	0.756039793090112
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GAAAATCTGTCA	487.337424756542	0.701846941804635
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CACTCAGGTGAC	487.370283311335	0.693220318253801
GAGTCAATATTA	487.372869513301	0.51709770543569
CAGCGATTAGTC	487.389255673672	0.886119052330555
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AAAACCAGTCAG	490.836179414305	0.585891188910937
GTGCTTCAGTCA	490.838116887333	0.458574116533908
ACTCATATATGG	490.845432740167	0.575071066015487

GCTTCATGACAC	490.846010513761	0.316694689801845
ACACGTAACATG	490.895195308742	0.554572244126064
CGCTATTGCTCA	490.910534323336	0.826896982925132
ATGTCTGACGTG	490.912582920872	0.43378967685111
ATCTCGTACTA	490.928799417608	0.251265511244518
AGAACGGATGAC	490.933481971549	0.384895599191922
CCATTAGATGAC	490.943175607347	0.55215157181897
GTCATCGACGGA	490.943482254201	0.361925801551838
ATCAGATATGAC	490.967152366389	0.72729522236311
GTAACATAATGAC	490.990447137645	0.596569069890676
CAGTATCCGTCA	490.99390955991	0.774950566277982
GACTCACTGAGA	490.994976193157	0.636886407433605
CGGTAATATGAC	491.014404193734	0.463619198576339
CGTCAGATGACA	491.017439295074	0.520193264994131
AAAACAGAGTCA	491.02903148018	0.235042870317383
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GTATACTATGAC	491.040125257352	0.627573187749592
CTAGGACAGTCA	491.04034377958	0.665940981108363
CGTTAGGATGAC	491.042431316317	0.575876224964233
GTGTGCGACTCA	491.045561464296	0.661043821978422
GCGTCCTAGTCA	491.046270227881	0.584788434409606
GATATTGTCACA	491.051417031953	0.271555599578044
ATGAGCAAACCG	491.055097325642	0.398783504208586
CTCCGGAATGAC	491.070202152378	1.1339595300337
CGTAGATGTGAC	491.075018473201	0.68873684477755
AGTCACTCTTCG	491.081175194074	0.380150570887336
CATTATTAGTGA	491.08136651806	1.03278567259138
GCTACTGTCATA	491.083415138521	0.425985335544935
CTATTGGATGAC	491.106926305392	0.352764583620516
GTCATATCTACA	491.108968381892	0.246109126578715
GAGTCAGGGTCA	491.109000677954	0.229235210485301
GTGCTACTACGA	491.13693935912	0.960208849202615
TCGAGTGACGAA	491.141621769895	0.368608187651607
AGTCACCTTACC	491.169277046261	0.267026512193433
AACTTGTATGAC	491.177521256189	0.578636765186262
ATTACGTATTAC	491.186891944421	0.64805997692196
CGCAACCACTCA	491.218137029887	0.201936057748578
ACTAATCGTGAC	491.237589447113	0.750793961623338
GACTAATTCAGA	491.248777905956	0.895358309902661
TGATTACCACACA	491.256506750699	0.43149324134982
CGTCAAGGTGAC	491.268125500182	0.389621946293586
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TGACGCAGGAAA	491.293371507415	0.547037230541
TGACCAATGCAA	491.294617225077	0.542685253387318
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CGCAGGCCTGCG	491.316064373379	0.757102885231883
ACTGCTGACACA	491.328392066367	0.330195969956818
CCAGTTGGTGAC	491.33228037573	0.838405711435395
ACAGATTGGTCA	491.338612134252	0.562439475456014
GTCATCTGCGTA	491.349301320651	0.701804720352489
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AAGCCTGCGTCA	491.386971202122	0.485054701872266
ACCACTTACTCA	491.394049277318	0.373550318800382

GAAAATTCGTCA	491.399053355273	0.653272449206436
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ATCCGTGCGTCA	491.458946157165	0.590459193207815
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GAGTCAATGTAC	491.618638139127	0.458860346455252
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ATGACAATATTG	491.64568773069	0.610268010574016
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ATGACAACGCTG	491.749469346123	0.227201073121026
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AGAGTCAATAAA	491.764728964829	0.499153429608948
CATGAAGATGAC	491.775648746203	0.482232890060307
CGGAACCTATGAC	491.796646686362	0.258303116831674
TGAACCCAGTCA	491.805065031165	0.490729541000239
GAGTCAGTAACA	491.818284760453	0.75954968542042
TGACTGCACCAA	491.858000039842	0.656466483452671
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ACTAATTAATAA	491.899102684935	0.509382111850113
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AAGATGGATGAC	492.038218167844	0.287354978378959
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CAGCATTGACTC	492.105625419548	0.575464139286589
ATTGCGGATGAC	492.136301670079	0.395218860443548
ATATAGTGAGTC	492.140428066011	0.446153785814754
AACTTGAGTAAT	492.144556701023	0.258640004466177
GATGCTGATGAC	492.150232447542	0.406245492430354
CGTCCATGAGTC	492.179971539663	0.783515880426905
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CACATTTATGAC	492.261066249527	0.28221345686998
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GAGTCAATATGC	492.33494585762	0.529988574125696
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GGTATCCAGTCA	492.490379677893	0.566975236922424
CGATGATGTGAC	492.52314280817	0.445165619198266
CATGCAATGACG	492.532684812687	0.722358589735635
CATCGAATGACG	492.540884318704	0.573878146374728
GACTCACTCCTA	492.556719829913	0.203839919251543
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CTGTAAGCGTCA	492.627992752226	0.56590874370829
CGTCATATGGTC	492.641664146116	0.715986555145524
GGCTGCTATGAC	492.646808119368	0.611734839890582
GGTTCACAGTCA	492.664375674481	0.455022478080779
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GTCATTCGATCA	492.731437262115	0.49960003703436
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GCCGGTGACCCA	492.782457321409	0.583762563642436
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GTGACAGACTCA	492.864194612291	0.453720394534063
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GTCATTCTAAGA	492.948758402057	0.478933083774955
AAAATAGATGAC	492.949652503975	0.30394677782091
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TCCACTTACTCA	494.403640142182	0.180984904020078
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GTCACATTAGTA	494.432386124497	0.607338898458492
ATGACGACGCAT	494.441620936717	0.331932957235673
CGTCATTCCTGA	494.448337944791	0.414140895941168
CACAAAAGAGTC	494.473443109848	0.959129452835583
ACATATCTGTCA	494.495192092546	0.401135274435813
GTCATATCTCAC	494.500985663479	0.427427549443726
GAGCCGTATGAC	494.516390910578	0.47254597899103
AGTGATCCGTCA	494.522911778489	0.449500932027405
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GAGTCAATTATA	494.535062537395	0.436244877610564
CGTCATCTATAC	494.542349049593	0.210642846966464
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CTCGTAATGACA	494.581921799635	0.496747080135775
GTCATTCATCCA	494.584786932908	0.387600869337009
ATGACAACGAAA	494.594058013733	0.424482486756148
GACTAATTCGTA	494.594472627976	0.459673978942112
TCAGCTTACTCA	494.605602482803	0.340893954277955
CGATGGCGTCAC	494.622471159512	0.617656575901076
CAGGCATGACGC	494.638979899156	0.391562113256986
AAATTTGCTCAC	494.641355069943	0.341667546847491
GTCATGCAATGA	494.652461745136	0.610412144146684
GGCCTAAATGAC	494.664050362856	0.53634537770254
GTCACACTGATA	494.690453263911	0.593026884658654
TGACGCGTATCA	494.690984374686	0.746918567589795
AGTCACCCCACT	494.706335554924	0.412779502154058
GAACCGGATGAC	494.709901316297	0.416496140032006
CACCCGTGAGTC	494.711792922781	0.836233766159974
ATTAAATATGAC	494.712527509781	0.674644823692164
GTCATAAGGTGA	494.735065424138	0.466499528785222
ATAAGGCGTCAT	494.735191858292	0.367284387561981
GTCACACGATGA	494.738172473201	1.15150108423189
CACTTCCAGTCA	494.741788360309	0.44492364646589
ATGACGATGAAT	494.743160981169	0.234957430411966
GACCAATTAGTC	494.753799000545	0.646517247958067
GACTAATAAGTC	494.760199379587	0.626826242024205
GCATCAGCGTCA	494.76679287961	0.277215528062773
GTCCTACAGTCA	494.767728713116	0.730391158072742
GTCATAACCAAA	494.784505425746	0.298444876374513
ACTCTCGGTGAC	494.817326957935	0.838590432997984
ACAAATGGGTCA	494.824639165438	0.235887936100901
ACAGTAGACTCA	494.830892539972	0.89558595944729
AGTCACCCCATATA	494.842076349431	0.505833785310514
GCGTCACTTACA	494.843138315382	0.675393429821556
GTAATTGACACA	494.844146412733	0.520568731379379
GCATAGAATGAC	494.897473964614	0.533847482415155
AAGCGTGC GTCA	494.920919692925	0.588469631129801
TGACGTAGTTAA	494.936724151902	0.578986958458581
GCGAAATCGTCA	494.940867583254	0.779769182110112
AGGTCCGAGTCA	494.99479875012	0.410110485972403
GTCACATATCGA	495.015222054209	0.441633281614069
GTGACGCCATGA	495.020455480577	0.519048319793345
CAAAAGCAGTCA	495.020485082413	0.43686507362056
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GTCATCTTACGA	495.061828416926	0.733216888462836
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GTCATTTAGTGA	495.085216108162	0.424530856570298
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ATTATTTGCTCA	495.187715669977	0.381616558624199
CGATCGTGACGC	495.189268485105	0.833179813824762

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AAACGACGTCAT	495.227142986521	0.448298382127488
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GACTCACTCGGA	495.339792505582	0.632192783787087
ACTCGCGATGAC	495.341199072283	0.550277431680659
CAGGGTCATGAC	495.350589873623	0.224043167222049
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TCTATCGACTCA	495.535206938686	0.26681779097564
TAAACTCAGTCA	495.576660408214	0.429694257191865
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GACCCCGATGAC	495.587332562654	0.549268536524968
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GAGCCATGACAC	496.205572832199	0.275831402919072
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GTCATCACATAA	498.36510105505	0.256535788130334
ATCGCCGATGAC	498.375298552746	0.568509848223211

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CATAGGAATGAC	498.446171454007	0.148429223043897
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AGAAATTGACTC	498.484773735355	0.441159476399263
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GTAATCAATGAC	498.513901068845	0.7347123852823
AGACTCACTCAA	498.525156728166	0.31229406446139
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CACGGGTGTGAC	498.542316256909	0.697169673221112
GCGTCTTATGAC	498.556059686304	0.420659654609154
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GCTAATCTGTCA	498.609900320311	0.69642878472594
GCACAAGATGAC	498.640108288726	0.172188655141826
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GTCATCGATTCA	498.78873099859	0.444421590588308
GAGTCAGGGTTA	498.812708609199	0.420329777326117
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GAAAGCGATGAC	498.856187869585	0.38183329562614
AGTGTGATGAC	498.871424636172	0.294530428593332
GAGTCAGTTTGC	498.887025258659	0.456274911184557
GTCATCTCGAGA	498.88932548698	0.682203393752768
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AACTATTACTGA	502.006170410712	1.07171575621506
AACACACAGTCA	502.016258173449	0.679828017037979
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GTAACCTATGAC	502.117901703186	0.5844830905234
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CTTGATTGGTCA	502.130028095932	0.587927917935799
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CAGTTGGATGAC	502.209960334363	0.345119526276074
TCACGGTGACCA	502.228439060671	0.766486484302753
GATGACCCGTCA	502.245835459493	0.34141815656857
ATCCATTGGTCA	502.249941306531	0.80190386555737
ATGACTTCGTAA	502.272397195783	0.464361762909649
TGACAAATCACA	502.295891186882	0.639511137091633
GTCATACCCGAC	502.31203913869	0.111586603467054
CACTTGAATGAC	502.314279747114	0.488489228751002
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GTCATAGGTGTA	502.327194163081	0.151888168177192
CTGTGACATGGC	502.34392528256	0.605456117309059
ACATCGCAGTCA	502.351070561042	0.540564105815576
AAATCGCGTCAC	502.352218914658	0.411898846758801
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GCACATGAATCA	502.499498204828	0.866079890798542
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CCAATGGCGTCA	502.817801688363	0.942060228922092
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ACTCACGTGGTG	503.37463254384	0.994440054813759
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GTCATTCCATTA	505.577563264156	0.387926348104604
GAGACTGATGAC	505.587092325586	0.287646407831396
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AGTCAAGTCATC	509.137833417123	0.412605147792883
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ACAACCATGACT	509.152514586686	0.51297317550741
GTCATTCCGGTA	509.164516054589	0.552875438687285
CATACCGTCATA	509.168402727905	0.290879224416047
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GTCATCTGCCAA	509.172392576557	0.441043100317908
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GACCTTGACTAA	509.269164382628	0.727332716688921
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CAGCTTGATGAC	509.327409573172	0.443953205265014
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GCCCATGATGAC	509.416891351338	0.643952261240304
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GTCACATTATTA	509.439585993527	0.537587093824668
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GTTTACCAGTCA	512.417761179095	0.40356481288826
ATCCAGATGACA	512.42908947372	0.415414789800339
ACTCTTGATGAC	512.431384495582	0.448031718702675
AGATACCAGTCA	512.43962664585	0.305206915593477
ACACCCATGACT	512.448474227066	0.398766634626102
GTCATCCAGGGA	512.450437430416	0.644743145162874
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GATTCTGATGAC	512.481645811034	0.443403673114022
AGAGCCTGACTC	512.492011089973	0.725450732667309
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GTCATAATCCAC	512.501850712732	0.32843635714742
GTATATGATGAC	512.508482506555	0.557156665670232
TCAGACGCGTCA	512.520963612394	0.369968404385521
TGAGTCGTCGCA	512.53177711787	0.601461019422
ACTGTTGACACA	512.533033736439	0.382739331294526
AATCATGATGAC	512.533218616431	0.62964206741737
GTCATTCCTATA	512.53878307765	0.140609182820931
TGACTGCATCAA	512.545781402163	0.397524178478675
ACAATCTGTGAG	512.548275332282	0.584384964467377
CTAAAGGATGAC	512.558098134282	0.481965759745525
GATTAGCAATAC	512.583877181627	0.466672112052178
GAGTCAAATATC	512.587808968434	0.765398801458092
TCACGGGAGTCA	512.591267692189	0.440210295352331
TAAACTACGTCA	512.626079179549	0.775937152493518
GTCATCTTAAAC	512.630647489405	0.459438799166206
TGTCACACGGAA	512.638271416656	0.620568703637881
GTCTCTGATTCA	512.6411071235	0.454652531064441
TCATAAGCGTCA	512.657672480917	0.545182828687204
GAACAACCTATA	512.659298500411	0.369982208200248
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ATACAGATGACG	512.666306456578	0.354693676441199
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GATTAATGAC	512.684496323	0.701392458741394
AGAATCCAGTCA	512.694575513724	0.452776777103612
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ACAGTCCAGTCA	512.741391555708	0.808931275070044
GTCATATATACA	512.744734402895	0.639626008573019
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TGACGAAATGAA	512.774064878761	0.258871266054954
CAGACTACGTCA	512.79418433294	0.83646546180947
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ACTCATTATGCA	512.800297426123	0.645209118612252
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GTCCTTGACTAA	515.642183684686	0.337230290574567
GCCACCTATGAC	515.644573729219	0.516552023521584
ATGCTTTATGAC	515.656824358543	0.711346539658875
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GTCACCAGTTGA	515.658139019604	0.654022247984305
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ACAGTAATGACG	515.708124101009	0.538363172303215
GGGACCGATGAC	515.751222854679	0.366668645567097
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AGTAAGTGAGTC	515.782105614631	0.399588693365072
TACAATCCGTCA	515.787800643582	0.431602947909271
TGACTGCTCGAA	515.80737901509	0.602950101393314
TCTGACGTGACA	515.847367633594	0.770628842715684
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ATCATCACGTCA	515.884550457134	0.484388533219079
ATCTATTATGAC	515.891485320494	0.191128029108722
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GTCATAAATTCA	515.90654392158	0.614382076256217
GTCTTTAAGTCA	515.918035356402	0.577119748383723
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CACGTCACTTAC	515.984576996353	0.554329321512019
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TAGTCACGGCAA	516.011665606084	0.241274522758067
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ACTGTAATGACG	516.072693942417	0.398035280177356
GTCATGGTGTCA	516.085395658134	0.583359900745999
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CAGTCAGTGACG	516.483408233551	0.31106470102631
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GGTGACGCCACC	516.819236637358	1.14936195555542
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CTGTTTTACTCA	516.884783808644	0.442078389473471
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AATGGTTATGAC	519.085019586262	0.534527861648898
TAATTAGCGTCA	519.121404430742	0.670902448414139
AGTAACGACTCA	519.124000240055	0.474865650686875
ATCCTCGGTGAC	519.134328036237	0.60715319360448
AGAGTCAGGCTC	519.155431389303	0.859358449877416
GATGGTAGTCAC	519.170605029546	0.54961287013509
GGGCGTGGGTCA	519.175624721728	0.322260322604911
GGCCTCGAGTCA	519.177341660216	0.487354765803786
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AGTCACCTCAAG	519.228396974106	0.274442174329219
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CTCAGTGATGAC	519.245801842275	0.457010989630598
CTCAATGGTGAC	519.245885887301	0.458659927977109
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CACCTTGACTAA	519.268566312109	0.392537383290304
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GTCATCCGTGTA	519.299119494964	0.601002191120482
AGTCAGACTCCA	519.313080690103	0.377337979442106
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GTCATACACTTA	519.35152982352	0.489470287441435
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GGTGGCTATGAC	519.39416907578	0.593239462135264
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AGATTACGCAAC	519.431365798508	0.430777573072777
GTCACGATATGA	519.449317009276	0.508096396415923
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CATCCAGATGAC	519.474597809908	0.682384725169921
GTCACCCATTGA	519.484526968584	0.60220035146516
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GCGACGGAGTCA	519.610053921044	0.375041335234774
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ATGACGCCGATA	519.957891033917	0.211521619514826
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CAGAATGGTGAC	519.99078714548	0.555155854522529
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CACCCGGATGAC	520.035454915655	0.605794924097365
ATGACGAGATTG	520.063542878079	0.305194213364515

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GAGCATTATGAC	520.106564336863	0.397340666745016
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ACTGCTAAGTCA	522.150569764831	0.650272922473906
CGTCATCTGTTA	522.221512728048	0.343800312876096
ATAAGGAATGAC	522.226420777672	0.265132746320317
ATATCGCGTCAC	522.233841384575	0.296806305359289
CAGAATCCGTCA	522.234283555842	0.585791282327969
CGGCTCTATGAC	522.268936980006	0.613348205110984
GTCATTTGATAA	522.269743440185	0.443562030519247
TGACGTGGGCCA	522.274335895217	0.420092326710864
ATGAGTACGAGC	522.287782213618	0.334832676698805
GTCATTTCTAAA	522.302590961708	0.681743891043755
GCGTCGGATGAC	522.310829528612	0.736075767205287
CAGTCAGATTTA	522.310870130074	0.48948825963183
CAAGGCGTCATA	522.318025706687	0.506545901114597
CTTTCACAGTCA	522.321398004035	0.417314024501781
GCTAGCGACTCA	522.321673672829	0.424335949532467
GACTCACTGAAA	522.323238048622	0.422098825001914
GTAACCTGTGAC	522.341027856332	0.525312819114972
TGACGCAAGTCA	522.341554311825	0.746296284734945
CTAGCGTACTA	522.349267156219	0.364980484638377
GAGTCAGGGCAA	522.361135461293	0.203496317291223
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CCATTCTATGAC	522.39371439074	0.458406098724991
GTCATACGGGCA	522.434565469213	0.625065844932619
TCAAACGACTCA	522.454514579341	0.419790734377586
GAAGGGTGACGC	522.454720208508	0.473625178971799
TCAGCGGTGACA	522.456844231576	0.362730128360236
CACTAGGTGACA	522.46117339179	0.708744745923623
TCATCGGTGTCA	522.487115072396	0.144990856616842
GCATGACATGAC	522.493190591378	0.23900027019646
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CACTCAGATGAC	522.510197095157	0.616019009459368

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GTCATAGCCACA	522.534367458555	0.669923075677357
CCAAAAGCGTCA	522.541193715006	0.660316589259255
GTCATCGTTATA	522.548732748181	0.669031929756438
GTCATCTGAACA	522.581115454469	0.73926713316702
GTCACACTGTGA	522.597999479655	0.629908647323056
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AAACCTGACTGA	525.943952862774	0.430593642402614
GTACCCGATGAC	525.944601852369	0.661638792454787
CTGACTGTATGA	525.95068350234	0.375066086794077
ACTCATACATGA	525.956780727677	0.260673959335673
GTTTATTTGTCA	525.959195071408	0.596989883743136
ACTGTGTAGTCA	525.97432401966	0.524890417250719
ACGACTGATGAC	525.974852364364	0.734380036624273
AATACATGACGC	525.999280488847	0.317135508813455
GCAGAATATGAC	526.000198558483	0.484354956106977
ATTACGGAGTCA	526.018726496077	0.558865826761072
AATGGCGTCACC	526.034086931675	0.37324774746495
GACCTAAATGAC	526.040643652108	0.87554508196591
ATGAGTACCAGA	526.055505967403	0.387907795755544
AACATTGACTCT	526.057004938261	0.515389905402152
ACCGGCGTGACT	526.081569667089	0.278664838180484
AGTCGTTACTCA	526.116050740696	0.219391966026851
CGTCATTCGAG	526.139238896135	0.370794734254444
CATTACTAGTCA	526.163802955668	0.759028404111642
GTATATCCGTCA	526.178586236563	0.665161904092329
GTCATCAAAGAA	526.1983865823	0.639789142410819
GTCATTCACCTA	526.206611399578	0.499454912655119
CCATCCACGTCA	526.2113145648	0.260340162593086
AGTCACTACTGC	526.226065512589	0.206562609311353
CAAACCTGCGTCA	526.233248903782	0.583036564412611
GTCACATACGTA	526.243315385579	0.710376921819685
CAGAACTCGTCA	526.243593538022	0.598387528604222
CTCACTGAATGA	526.257754515066	0.809942483553237
GGACCATATGAC	526.265542092353	0.508638714089203
CACTGACAGTCA	526.270677012056	0.63602367614576
CCTCAGATGACG	526.27861796505	0.496129216351635
GCCTATACGTCA	526.283604201885	0.565599635236662
ACTACGAATGAC	526.289491872255	0.27320485184232

GACGTATTAGTC	526.305782846727	0.554387513356778
TCTACTTACTCA	526.308790576235	0.20850202314519
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CGGATATGACCC	526.338206621003	0.866760479234213
ATCATGCGTGAC	526.353826246313	0.574885250747415
GGCTTACAGTCA	526.375457398629	0.707996209709918
AGTCACGGTAGC	526.399187654648	0.417346231827133
CAAATTTGACTC	526.423845789021	0.726315318348625
GTCATATATGTA	526.42648612099	0.497699189462583
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CATTGCTGAGTC	526.47754110465	0.740621280428366
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GATGACATTTAC	526.504489208974	0.231935723232703
GTCATATGCAAA	526.505385168001	0.591343749753556
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GCTCAAGACTCA	526.541718581656	0.699464402976049
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CAATCTGATTCA	526.585017652138	0.352178151828174
CTCATCTGATGA	526.585644178274	0.654231551820053
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CACCTGTGTAC	526.615409908283	0.340822769840754
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CTCGGATGACCA	526.738570799065	0.42330196638167
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CGAAAGCGTGAC	527.225668407882	0.884514481107716
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GTCATATATCGA	527.252347604515	0.447928639902227
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CACGTTTGTGAC	527.283247894185	0.744571510717609
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GTCATTTATCAC	529.296343578122	0.467006880991403
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GGTAACTGTGAC	529.338347584303	0.679613826459295
TAAATCTAGTCA	529.344475666832	0.583075643364392
ATGACGCCGAAG	529.352316169773	0.337086348248271
GTCATCCCATTA	529.356965503108	0.409945085118715
AAATAGCAGTCA	529.359768345162	0.494346326317275
CAGTCACGCTAG	529.359769374732	0.470860106570759
ACGGGTGACCCA	529.377182514811	0.627670872939606
GATTGCGAGTCA	529.380220321661	0.216297046026788
ACTCACTGTGAC	529.381960532691	0.399054097811785
GTACGTAATGAC	529.386475771056	0.451042558958972
ATTCATGACCCA	529.401038327871	0.476993037214035
AACATTAAGTCA	529.406082797758	0.422246928306871
GACTCAGCCACA	529.411255838071	0.858811237872677
GACTCATGGTAC	529.41870545833	0.555017139669887
GTCATCTGTTAA	529.42121234249	0.511854558642621
CATGTTTATGAC	529.429718200266	0.740454148109321
CTGGCGTACTA	529.443499681437	0.39218146693386
TGACGAGTTCCA	529.446783480257	0.613713950364759
ATTCAGTGACGC	529.46365960317	0.641743445294655
GTCACCGGTACA	529.491335526228	0.452365812413133
GTCATATAACAA	529.502757943201	0.632061173924472
GTACGGTATGAC	529.511343837649	0.431600317407602
ATGACGAGGTGA	529.516430281343	0.305296297653501
AGTTTGGATGAC	529.525151484655	0.613352355901409
CACGTCACGAAC	529.531476928	0.399283723463859
ACTTAAGATGAC	529.543285685989	0.491537853501045
CCTTCTGAATCA	529.555475737961	0.33161767903102
TCCTACCAGTCA	529.563353384119	0.375263325647863
GATCACGAGTCA	529.576575071003	0.677919633320791
AACTGCGGTGAC	529.596270175266	0.625255345277074

CATGAGATGACA	529.606025546539	0.499416207192631
CAGCACTATGAC	529.606996821426	0.735596591159937
AGAGTCAAGTTG	529.620540664747	0.433232404618603
GTCATATTGGAA	529.636789935689	0.50528819156725
GCGTCATGCCAA	529.642047039443	0.34549294131493
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ATTCACCAGTCA	529.667319792357	0.636028661378769
AGTCACTAGTTC	529.66782683877	0.387570568576916
AGTAATCGTGAC	529.680077008668	0.32580440759528
GAATTCGACTCA	529.68392340927	0.535996460967834
GAGTCAAATAA	529.703113361463	0.402289278487253
GTCACCTTGTC	529.708030451163	0.490284901530061
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CATCCAATGACG	529.726891279655	0.578544999005566
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CATTTGTGTGAC	529.733471277375	0.533842371809017
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GGTGGTAGTCAC	530.835427514222	0.452337008654035
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CACCGTTATGAC	530.867097856642	0.551864963471274
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GTCATACTACTGA	531.016885618502	0.500404425344205
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CCAATCGACTCA	532.482129188482	0.533372494364485
CAATGTGTGACC	532.491234989687	0.870987016923903
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AAGAATTGACTC	532.527592437163	0.416605913931096
ACTCTGGAGTCA	532.533709815833	0.592844374975169
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ATTTTACAGTCA	532.552823634713	0.568650620559474
ACAGCGTAGTCA	532.558692349606	0.244825645326268
ACCTGCGACTCA	532.56203215586	0.0725010000387075
GTCAGCTGACAA	532.562928757506	1.07475608588696
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CTCCATGATGAC	532.629608317023	0.413207190545137
AGACTACTAAT	532.638426568471	0.292299809707231
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GCCCATTATGAC	532.738223647163	0.538757914143828
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GTCATCTAAGCA	532.782268498765	0.636098040191799
GTAAGAGTCTTA	532.785608468056	0.428053843118003
GTCATACGGCCA	532.788917532283	0.472651839761298
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AAAGCATATGAC	532.792079880379	0.382578748481708
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CTTGCATGACAC	532.841311444586	0.491230943727393
GTCATATCGCGA	532.878160538207	0.39162389536314
CGACCATGACAC	532.894068152356	0.466870703753432
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GCTCTGTATGAC	532.909732812891	0.786136819128788
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TATCAGATGACA	535.639660934673	0.420645842144032
ATGAGTCCCATG	535.640090967713	0.582561781272837
GACTGAATGACC	535.650114393108	0.859308373729887
CTGAGCAATGAC	535.660637719119	0.430277055689727
ATGACGAGGTCA	535.666980173886	0.47044668934631
ATTAGTGACCCA	535.670039171492	0.679970110773586
TAAGATTGGTCA	535.670735631686	0.297855864888258
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GTCATCCACCTA	535.689964732187	0.226853958724265
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ATCGGTTATGAC	535.723521478133	0.305812384112511
ATTCATTGGTCA	535.742719820702	0.583538582866005
TCTTGCGACTCA	535.750397241996	0.439227020708543
AGTCGTCGTCAT	535.758813328365	0.350178847127755
ACGTCACCTCTA	535.765345079605	0.421710275113698
GTCACATCGGCA	535.780050779281	0.676367918014581
GATGAGCTGTCC	535.80242974296	0.168615384654814
TAGATCCAGTCA	535.805844699831	0.428201486772741
CTTATTTTGTCA	535.80671252934	0.271976416443103
GTCACCCTCTGA	535.828523753864	0.451599179784429
AGTCTTGCGTCA	535.849710629365	0.3523589661971
ACGTCATGTACT	535.864082113156	0.320685188299977
GACTAATTCGAC	535.865851695383	1.15968891751096
GACTCGTAATTA	535.865878688479	0.600727675747508
GTGACATCGTCA	535.87900148941	0.257820438363736
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GTCACCACTGAC	535.885603466444	0.555101766910482
AGGACTGTGTCA	535.886588312493	0.471246801970241
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ACTGTGCAGTCA	535.905769479008	0.559209550914498
ATGACAAGACAT	535.908906719354	0.43576553131953
ATGTCAGACTCA	535.917786483829	0.746241198200431

GTCAC TTTGGCA	535.925074770504	0.640257698716025
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GATTTACATGAC	535.939499540017	0.489526649901498
GTCATCTGAAAC	535.949669623166	0.534789292951258
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GAACTATTACTC	535.999623879195	0.567432228699177
GCATTTGTGTCA	536.004123216469	0.70481444989298
GTCATCGATGAA	536.027635974429	0.760853982445785
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ACTCATACTCAC	538.810145400992	0.272978352848504
GTCACGAGTCAA	538.873083074382	0.439343776291739
GTCATTTGTACA	538.886137300257	0.489636079860941
CATGAGTAGTCA	538.887150586159	0.550397627325132
CTGTCCTATGAC	538.922123293004	0.464634085223811
ACCAAGTCATCC	538.922358298677	0.258894752117331
GACACGTCTGAC	538.926904392714	0.599025843445276
CGTCACAGTAAG	538.92942961991	0.418497517571557
CATAGCCAGTCA	538.959712006445	0.688918218838583
ACAGGTATGAGT	538.964992633396	0.364298950096178
CCGAGTGATGAC	538.966230639299	0.666397470192263
CTTGCCAGTCA	538.988346035824	0.392622028612077
CTTCTATATGAC	538.996449360095	0.561953961458886
AGTGTACAGTCA	539.006481539268	0.611718770013077
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GACGGATGACCC	539.017576486313	0.783254227097567
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AATATTGTCACA	539.074306320861	0.477412224913114
AAGCCTGTGTCA	539.0902833136	0.576346572152209
TGAGTCGCCATA	539.105084287911	0.868014080147782
TGACGCGTGCCA	539.106376908406	0.998261706465852
GGGTCACACTCA	539.125052115732	0.543513661573426
AGTCTTCAGTCA	539.125274033743	0.49537117219065
GGAACATATGAC	539.129095146837	0.536163695158005
CGTGTATGTGTC	539.129801757233	0.716479453739328
CCTTCGGATGAC	539.133447822449	0.421248732677042
ACTCTATAGTCA	539.133731775173	0.216084404690996
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ACTCATCGGATG	539.167313091036	0.346489558316146

ATGCCAATGACG	539.192228108681	0.523932947266926
CGTCGGAATGAC	539.195830255342	0.335180473012919
GACCATACGTCA	539.200883827833	0.61617993298506
ATGCTCGATGAC	539.203186842226	0.385390925455514
ACGTCACCTCT	539.204167056834	0.31357424922779
CGTTACCAGTCA	539.205343502995	0.632554630900737
GATCGTGACCCA	539.235667763661	0.208937771859786
ACCGTGGGTGAC	539.239104121153	0.523478361800745
GTCATATCGCTA	539.244697900096	0.423061759265063
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GCGATAAATGAC	539.282928302167	0.469730419543396
CAGATAGGTGAC	539.300951458726	0.594722383915219
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GACCTCTATGAC	539.315902856308	0.541096539548085
CACATAATGACA	539.321729505075	0.383500031016831
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CGGCTCGACTCA	539.595428039555	0.552894185717364
ACTCTGTATGA	539.604474233515	0.513662920991926
GTCATATCCGGA	539.608161438564	0.663271461763781
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GTCATCTAGCTA	539.6269265652	0.496483058014844
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GTCATCGGGTTA	539.647790268998	0.721897524502549
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AGCTGGAATGAC	539.726828545917	0.281616374504861
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TAGGCTGTGTCA	539.788956370793	0.465584775870022
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GACTAATCCGAC	539.833195962823	0.516385179963608
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ACGTCACCC TTC	539.876090460231	0.378643926336153
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GACAGTAATGAC	539.97558036749	0.565938321162956
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GTCATCCTCGGA	540.02115560755	0.676479521861671
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GCGCTAAGTGAC	540.030346458712	0.598043203436441
GAGTCAGGAATC	540.040872266271	0.429059754140838
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ATGACCACGACG	540.055310849742	0.319016193512221
ATGACGCGCGCA	540.066109255545	0.548238067649658
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GACGGATATGAC	541.697790779417	0.236291781095914
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ACTCATCGTGCG	541.73819047722	0.567323386468305
ACTGATATGTCA	541.740714813108	1.29169166851181
ATGAGCCAGTCA	541.743009596565	0.378151038446353
GATGATCTGTCA	541.749595413194	0.307259312111436
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ACTATTGCGTAA	541.785122644226	0.486642494099211
ATAACAGATGAC	541.794709791925	0.657635456674374
AACTATCCGTCA	541.794799374663	0.0975940750167419
GGACCCAATGAC	541.803263945771	0.819554715047273
GATTCTAGTCA	541.80774185148	0.630827063422059
ATGACGAACCTA	541.808918469572	0.158168051585974
AATACTAGTGAC	541.811067168274	1.05528874778704
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GTCATAGCTAAA	541.847540371685	0.552025386816003
GAGTCAAAGTGA	541.851059058284	0.268856532117559
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ATACATCTGTCA	541.869429879326	0.453046523863977
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AGTCACCTCTGG	541.894650785279	0.375402869737229
CATAAGGATGAC	541.908628386855	0.310691834156259
AGGTAAGATGAC	541.908708757578	0.355308685714135
ATAACACAGTCA	541.932668979981	0.637783354306938
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AGTGTCATGCGA	542.016195438068	0.287434070696392
AGTCAGACACTA	542.031549014759	0.426789854075926
AGATTTTATGAC	542.034441046916	0.644880663950918
CAGCCGGAGTCA	542.038821322665	0.727539028130889
ATTTGCTCACCC	542.055519051811	0.309552487687144
GTCATTTTCGAA	542.080511321827	0.523837321599396
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CATGAGAATGAC	542.096686549987	0.428433266112276
GTACACGATGAC	542.116712416492	0.548163843417661

GTCGCTCAGTCA	542.123929478239	0.471776637757897
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GTCATGACCTTA	543.128506129896	0.445150617065433
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ACGTCACCACCA	544.541294308999	0.444433596793452
GTCATTCTGGGA	544.54234278527	0.824560716798513
AAGAAAGATGAC	544.544410510984	0.212724178016093
CACGTCCTGCG	544.546877493561	0.470062162816946
CCACGAGATGAC	544.552819439999	0.448271817805352
CGCAGGAATGAC	544.55392291892	0.19458023789702
AATGCCGTCATC	544.558484937644	0.344104900026561
ATGACGAACATC	544.568074820035	0.276082133312247
GGTATCTAGTCA	544.588407332598	0.527129622767818
CGTAAATGTGAC	544.59948713708	0.582751295449042
TGAGCAAATAAA	544.613687087367	0.310225965890603
GTGAATTCGTCA	544.615343054398	0.410281688305874
GAGTCAGTAAGC	544.624571200564	0.1781813220266
CACGCCTGACTC	544.630176959809	0.45173985091276
GTGTAATCGTCA	544.634922259511	0.449530633984914
CGTAAATGAATC	544.637909125041	1.2282631620669
CTGACGTAGTCA	544.657563991646	0.360337654917824
CAATTTGTGACA	544.68258694896	0.310546058096819
ATGACAATGATG	544.691755877331	0.719351971639398
CTATTGCAGTCA	544.698404683381	0.517592190990954
CACGTCAATGAC	544.701423280262	0.445889649147428
ATGACGCCTTAA	544.717894795222	0.403619827460543
CACGTCACGTAG	544.721255488538	0.474573794952341
ATGAGTATGTCA	544.766005696959	0.467797707615429
GTCAGCTATGAC	544.768251303557	0.426335850641669
GCATCTGATGAC	544.771154504722	0.834101012546353
AGTTGTGAATCA	544.778244598081	0.369365874187818
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AGCCCGAATGAC	544.796287704448	0.623074950360201
ATGACGACTATA	544.797215376107	0.330087958893187
GAGGCTTATGAC	544.801777356549	0.453248665525362
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GTCATCATAAGA	544.831349233909	0.467783666473943
ATCGGCGTCATA	544.832335653113	0.419351620182286
GGTCATCCTGAC	544.839277444788	0.724885163276301
GTTTTGGAGTCA	544.853971119316	0.455569231040513
CTGACCGACTCA	544.857213849449	0.465544023660221
GTCATATTAGAC	544.880630342249	0.587223243708754
GAGTCAGTTCCA	544.902023058564	0.39399640499489
GTCATTACGACA	544.923001175172	0.509446756286329
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CACGTGGTGTC	545.640396093618	0.597723173455017
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ATCCAAGATGAC	546.188244482583	0.380151066102216
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AGTCATGGGATA	546.239626937825	0.368268419598208
GATGACCTCATC	546.265565812761	0.538780544602355
GACGAAAATGAC	546.266431528072	0.411742545350936
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CCTAATCCGTCA	547.464342609934	0.27362213781785
GGTCATAGTGAC	547.46909849201	0.318813114054419
ATGAGCAAGTCG	547.497205940445	0.366891218353825
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ATGACTAGCAAC	547.512915231374	0.397102571039311
GTACCTGTGTCA	547.518005267418	0.643991060231681
GAGTCAATAAAA	547.524675628529	0.604272735865031
GACTCATGGCCA	547.53124400167	0.987322512322309
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ATGACAGTATGA	547.562049316105	0.534260531491542
ATGACATTATCG	547.571377142682	0.410318992035255
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AAAATGTGTGAC	547.592250773818	0.37127868599454
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AGTGACGTGACG	547.610452853622	0.252381043574594
GAAACCTATGAC	547.625792178644	0.552140118627345
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CGATTCCAATGA	547.651205240658	0.558852493391502
CGAATCGACTCA	547.671917536038	0.573072684637743
CGGAAATATGAC	547.691198707588	0.598907835253597
AGCGTTTACTCA	547.692478196485	0.539699723827432
CACGTCTAGTCA	547.693514299625	0.480093759247919
ACCACCGAGTCA	547.699227782085	0.35575444387059
GACGTAAGAGTC	547.701337966309	0.606498932110102
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CGAGTGTGTGAC	547.720590760279	0.569541665943454
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ACTTGCGGTGAC	547.723559205764	0.714955385738481
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AGTCACTACCAG	547.742606360363	0.194330323845676
TGAGTCGTCGAA	547.751468884134	0.620718118326358
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GACTGGTATGAC	547.788638088014	0.485491159798132
TAGTAATCGTCA	547.798804647769	0.67834715680929
ACGTCACAATTG	547.799908889817	0.579999861341775
CTGCTGGAGTCA	547.801722184783	0.828030341127269
ATGACCGAATTA	547.802729560575	0.352406603200719
CTATAAGGTGAC	547.803419833856	0.336033230851477
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GTCATATGTGCA	547.828533176822	0.288079913978178
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CACGGATTAGTC	547.909983022879	0.555435441694718
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CAGACTGATGAC	548.195419477211	0.350685844098429
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TGAGTAAGTACA	548.313346600541	0.359536229868578
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GCTCATGATGAC	549.08210672115	0.706758820856037
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GTCATCCCTATA	550.503748422847	0.430657219420618
CATCGTGACGAA	550.517636331585	0.606407685608103
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CACAATTGCTCA	550.522226962961	0.576686051644654
CTGGTTTTGTCA	550.522541711325	0.611778515935145
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GTCAGACCGTGA	550.539239531938	0.397121189127536
AAAATGGATGAC	550.567286949498	0.369882284007398
ACGCAATAGTCA	550.574069647864	0.818935432006326
AAATGCTATGAC	550.575501389237	0.217719624182228
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GCGTCACCTTCA	550.597097770273	0.218138070928539
ACTCAGGAGTCA	550.601647130615	0.423014696795741
GTCATAACTAAA	550.6255164732	0.55712890596002
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GTCATCGTTCGA	550.654028582446	0.397342199325553
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GTGAGCAAATGA	550.65909778165	0.264393951452244
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GGCTCGTACTA	550.676337294837	0.267703929656191
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ACTCATACTGAG	550.687742639718	0.323608997010629
GTCATACGCGAC	550.691665041555	0.511023167238353
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ACTCATAAATGA	553.431463395277	0.57334583161528
GTCACCATCTGA	553.439527469238	0.163984685321701
CACACAGTGACG	553.440767332163	0.630886760780979
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CTGACTGTATCC	553.454664946295	0.212303923684762
ATTGCTGATGAC	553.481744676498	0.616111624418895
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ATACTCTATGAC	553.497437887633	0.405354031717045
GAAGACGATGAC	553.499032648076	0.493141555889637
ATCAGTGATGAC	553.503306477521	0.477194865385597
GCCTGATGTGAC	553.518967596569	0.512348996441802
GACTAATATTGA	553.520418104499	0.578695637951044
CACCGAGATGAC	553.530339496377	0.680237815809716
ACAGAGTGTGAC	553.543189885642	0.255054573407588
GGCTCATATGAC	553.546329448641	0.459956661862215
GACACTTGACTC	553.550038609967	0.3815457159621
GTCACACAAATA	553.550281310708	0.357083912053623
TACTCATAATGA	553.591076231136	0.386675500939517
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CGCTACTGACTC	553.672333693191	0.376657654630764
AGGATATATGAC	553.675059121243	0.348161946091265
AGAGGAGTGACT	553.677400801923	0.0910286908546247
CGTCATTCCAAG	553.682305886216	0.452569603407044
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ATGTGGCTCACA	553.686332894292	0.344191405152853
GATCATCTGTCA	553.692160751999	0.378840481440365
TAATGCGACTCA	553.701700523213	0.431491891701261
ATGCAAGTCATA	553.708308076963	0.159617770209653
GTCATAAATGGA	553.709261526318	0.178938988392643
CACGTCACTCGC	553.709636096695	0.432542841771127
ACCCATTATGAC	553.711946280336	0.392359565797773
GCTTCTGAATCA	553.714641352383	0.480199792094008
ACTTCTGGTGAC	553.718469398431	0.639590762183196
CTAGCGGATGAC	553.723115504126	0.575425071811864
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GTCATAGTCCAC	553.738828196797	0.426167873538389
CCAATTGACTGA	553.783096637748	0.363477311335223
GACCACGAGTCA	553.786542093416	0.582926666094347
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GACTCAGATGCA	553.795825867972	0.721520063466309
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AAGGCAGAGTCA	556.1430573853	0.262398711861717
GTCATAGGACAC	556.145334697703	0.394141659519494
ATCCAGGATGAC	556.157409065327	0.462676124192331
ATGCATGGGTCA	556.159157744671	0.613998335171522
GGTCATATTATA	556.159220435446	0.780567568643087
ATGACGGACCTG	556.160467402223	0.434584243361483
GTA AAAAGTCATA	556.171316990095	0.330618854824943
TCACCGCTATGA	556.176686947128	0.500172235296631
ACCAATTGTGAC	556.178711610214	0.551712249880332
AGAGCATATGAC	556.202302793921	0.383530053466366
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GTCGATAAGTCA	556.239010837098	0.450157277051171
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CATGTCAATGAC	556.241456812192	0.645088333691755
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CAATAAGGTGAC	556.260431858114	0.548386336613878
CACGGATGTGAC	556.270986666503	0.5568368540427
AGTCACTCCACG	556.274516330618	0.445767727841039
CCTGAGATGACG	556.277924223095	0.701072356854303

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GCATACAATGAC	556.304947380693	0.807222573791146
ATGACGTTGTTG	556.307031928413	0.396460580260893
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CAGTCAGAAATGC	556.337102633352	0.36409692278136
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GAGTCAATTGTA	556.37666096375	0.560088035659889
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CGTCAAGTCATC	559.133981229182	0.294357353262751
CACGAGGATGAC	559.141204557663	0.576805009300638
CGTCATCAGCAG	559.14180993683	0.695375619744398
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AGCCAGGATGAC	559.16254475034	0.560929626628825
GACTCACTCAAA	559.176722578631	0.21560316458509
AGATGGCGTCAC	559.18241597505	0.293317823714537
GAGTCTTACGAC	559.186320541858	0.77849846985021
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GATAGTGATGAC	559.235104007195	0.333366899826324
GTCATTCGGAAC	559.256483828293	0.640402018234944
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GACGTAGACTCA	559.270910447101	0.388947952904008
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GTCAGTACGTCA	559.3295539951	0.607602491116397
ATGTAGCAGTCA	559.340372027737	0.47198109372677
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GACTAATTGACC	559.35003320488	0.762911241712934
AGACTAATCAAT	559.352553426749	0.695803535783687
CTGTCATTATGA	559.36309198909	0.878797294043899
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GTCATCTGCGAA	559.38193973799	0.752993221519616
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GAATTGTGTGAC	559.398741879317	0.29347416386921
GGCCTGTGTAC	559.431964095678	0.249911511126209
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CATGGTGACGTC	559.457437281817	0.743053465563482
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GTCATCGTTCTA	562.226705125927	0.372661390079022
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GAGCCTCAGTCA	562.308682209021	0.541922116611481
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ATAAACTCGTCA	562.31159878856	0.462337606403581
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CCCGTAGACTCA	562.323687459587	0.746803070293103
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AGTCACTTGTAG	567.799597950521	0.399446810218778
AGTGACTCATTA	567.809374447399	0.517725061937739
GTCATAGGAGGA	567.814886299539	0.252671713691361
GTCATATCAATA	567.824347830489	0.530027739951111
AGTGTCAATGTC	567.83148317466	0.189970295667668
AGACTAAATGAC	567.835066562146	0.482479814357149
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CGTCATCGGCCA	567.911979854068	0.371525019481559
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ATGACGTTAAAA	567.946390220459	0.350556819066889
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CTCATAGCGTCA	567.962071518892	0.323543479818818
CACGTAGCGTCA	567.97032552545	0.462978476300607
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GCGTCACGCTTA	570.391007341439	0.754585953646617
GCTAATACGTCA	570.392009471561	0.432640491926871
AGCGGTTATGAC	570.401766706513	0.461881714197777
ACCACTTATGAC	570.404397167386	0.265864026590039
ATCGTCATGCGA	570.412156183215	0.997619275287736
ACGCGTCAGACT	570.418233096729	0.578300612269358
GCGCATGAATCA	570.425704986772	0.552406105029017
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TAACTATAGTCA	570.42781904868	0.553055853264219
ATGACGTTGCTG	570.434119217353	0.511075826906805
GTCATCTTCGAC	570.436524542401	0.404964183087991
ACTCCAGGTGAC	570.437245454744	0.52323530826293
GTGGCCATGTCA	570.4382149506	0.548221782610794
CATCAGAATGAC	570.455980838285	0.52818862540993
ACGTGCTAGTCA	570.465835124701	0.563726108672538
ACAGATTGCTCA	570.483082131305	0.695824133413289
TGACGCAGTCCA	570.505962148558	0.666188611217605
GTCATTGCGGAC	570.51463823199	0.660949375691524
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ACAGCAACGTCA	570.551445076778	0.75511321866288
AGTCACTCCGTA	570.564864655908	0.540318141562936

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GCGCCTTAGTCA	570.605881475973	0.689384670108939
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GTCATTATCATA	570.626875967878	0.771602890981824
CTGAGAAATGAC	570.657894776279	0.62757606919103
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GATGCTTATGAC	570.677531903639	0.37101391302396
GACCAGAATGAC	570.683682966689	0.590135202949534
GAGTCAATAAGA	570.688887997676	0.434903683809727
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TATGCTGT CACA	572.934281105432	0.201065055934159
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GCTGGTGACCCA	572.964902228228	0.618829095670102
GATGACATTATA	572.967095415132	0.357242992474459
AATACAGTCAAC	572.978337748409	0.541488752970974
GATGAATATGAC	572.987377263069	0.189438399096156
GTCACAGTTAAC	572.992783757847	0.126348043635206
ATGACGTTAACG	572.992807162162	0.528399703137898
ATTGTATCGTCA	573.012590634501	0.524569789337325
GGTCTTGATGAC	573.012702431314	0.587154683934138
ATGACGGAGTGA	573.012861645249	0.282368580933362
GCCCCGGTGACA	573.014179729024	0.600031923529489
CATTTCTGAGTC	573.024620292571	0.857980225561901
GTAACGAATGAC	573.033412652665	0.285478894236924
GTATGAATAATA	573.038049466873	0.273510709830636
GTTGACACAACA	573.042404804493	0.43445426654404
ACGTCACCTATC	573.043548535176	0.322002120623955
ACGTTTGACGCA	573.050065717167	0.390110878054336
TGACTTAACGAA	573.052026002554	0.553722046992436
ATGCATGATGAC	573.06001102232	0.363683959701015
CACTGACTGTGA	573.06841490249	0.431814085060185
CTTGTGCAGTCA	573.069293380058	0.536849684726479

GGTAATCCGTC	573.06969632935	0.379650390240673
GTCATTCCACAA	573.072446610034	0.341478477402744
CGTCATTCCGTC	573.074700401772	0.340803779442111
GTCATCAGTCCA	573.076138060317	0.513447249302684
CTATACCAGTCA	573.088971311777	0.304331641417227
ACGTACATGACA	573.109486069436	0.429969978748571
ACCTAAGTGTC	573.122116055382	0.71835474507605
AACTGCTGAGTC	573.122705400027	0.786359608220977
TTCAGTACTGAA	573.125476266036	0.957734740065355
TCAATTATGTCA	573.127439374666	0.532264342258891
GTCACTGACGGA	573.12941779693	0.480698247505148
GGGACTTATGAC	573.130225137654	0.39351152911493
CATAGTTGTGAC	573.149095568946	0.380692303998745
TATGACAGGACA	573.15551203025	0.517356127385087
ATGATGTAACCA	573.156210972302	0.519607984595419
CACGTCAGTACG	573.160415465149	0.712270975153168
CCGGCCAAGTCA	573.160977549306	0.674284670060743
ATTGACGTGTTT	573.191761011474	0.559391281292736
AGCGCTGCGTCA	573.203447741734	0.606445581637185
CGGTAGATGACG	573.207810387471	0.504462759929818
AATTTTCCGTCA	573.223062109837	0.497550758399755
CTGTGTAATGAC	573.226945861331	0.383417340058194
ATGAGCAACCCG	573.228306280728	0.423264513711075
ACTCGTACTCAT	573.238221271493	0.272818277449099
TCGACGGAGTCA	573.240217353163	0.572754944675818
GTCATTCAAGGA	573.240458109912	0.289585704347367
CGACTAATTATA	573.240618389901	0.56700855815616
GGACCGTACTA	573.249053062554	0.395159578778936
CTAATTTATGAC	573.260857027087	0.393156021782765
CCTGGTAGTCAC	573.263403513302	0.202049752993159
ACAAGTTGTGAC	573.263459317455	0.521756655115069
CCATTAATGACA	573.265622600803	0.397864438929654
CAAATAGTGACA	573.269727529301	0.666212019650375
CTCTACAATGAC	573.276739706284	0.417172094433954
AGTCATGGGTAG	573.297040741327	0.244124728386186
CTGCTAATGACA	573.304916730549	0.553012473775792
ATGACCTAATTA	573.321536444729	0.361425349669957
CGAAAGGATGAC	573.330864494444	0.350239985422245
GCAAGTGGATGAC	573.337654752062	0.322389572238846
GTCCTTACGTCA	573.342611904092	0.392227934174548
GACTCACGCATC	573.351828913421	0.305392085226
GCTCCTGATGAC	573.373252270292	0.530502995121014
ATGAAAATGAC	573.375890559907	0.425257874668516
TCTTCGTAGTCA	573.378306364642	0.55940273275285
ATGACATGACAG	573.379562899762	0.117279481488052
AGTCAAAATGAC	573.38064889833	0.438293892007492
ACCATCCAGTCA	573.403515005078	0.491793555521652
AGTCACGAGAAC	573.410084660867	0.413447902560531
GTGTCCATGACA	573.413495465475	0.690249869325029
CGCATCGACTCA	573.413796633506	0.442854404923338
ACTCACACGTGA	573.416804498549	0.523423961420639
GGGTATACGTCA	573.426546454303	0.376095336323881
GGACATTCGTCA	573.44005653248	0.612495657882144
CATGGAGATGAC	573.461138793384	0.421327455224851

GGGCATGATGAC	573.469494091179	0.489691503786614
CTCAAGATATGA	573.472879937707	0.762017235352291
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TCCATCGCGTCA	573.477538132577	0.579418254662828
GGTCAATATGAC	573.485952327805	0.399374703479599
ATCTTAGGTGAC	573.496681829332	0.566563455075034
AATTGGGATGAC	573.500023378608	0.400421287040515
GGACTTGCACA	573.501640165868	0.478361543444549
ACTAACGGTGAC	573.509923809267	0.495098439579075
ACACTTTACTCA	573.512693102135	0.374434454560905
GTCATCTACAGA	573.526023581946	0.602508964284201
ACGCTGACGTCA	573.528408579324	0.358746879244939
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GACTAATTTAAA	573.548579869195	0.549135005716585
TCCAATCCGTCA	573.548841119102	0.449181925037082
TATGATGTGGCA	573.554038516066	0.402331298296388
CGCTTGGATGAC	573.556414314484	0.299377794928841
GCCAATGATGAC	573.561991206646	0.516693666124969
GTCACACACGAA	573.574080805501	0.976957440135123
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ACCAACCAGTCA	573.631555339823	0.460276389024943
AAAACAAAACAA	573.637500196821	0.621859157869623
AGTGTCATGAGG	573.646516675156	0.328695620521959
GTAGCTACGTCA	573.648858641792	0.678829357208364
GGTACTACGTCA	573.658226390495	0.514550370018375
CCGACAAATGAC	573.670451193345	0.474499379088883
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AGTCAGAGCACA	573.67706522961	0.295695801960656
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GCTTAGTGTGAC	573.742725164529	0.318060333031248
CCTGAAGGTGAC	573.742837246406	0.567195350191574
TAAGTGGAGTCA	573.743037012815	0.295009376915789
GAGTCGGATGAC	573.757162461479	0.489571639524434
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GTCATAGACGGA	573.76439448632	0.33091047397461
AAGGAAAATGAC	573.77998865123	0.400627107832266
AGTCACTTCTGC	573.800132390046	0.45438581397605
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GCGTCACGGTCA	573.832024625627	0.501165939439261
CTGAACCAGTCA	573.835795061927	0.510882957075217
GCATCAGACTCA	573.841697251217	0.328620562515259
AAATCGTGACGT	573.850146789822	0.476943444838498
GTCATCCTGCAC	573.851102313969	0.201273595487605
ACCGCAAATGAC	573.85314965248	0.694148489214402
GACCATGTCACC	573.865498325813	0.231342615124552
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CAGCAGGATGAC	573.933797294031	0.414207594348218
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GAGTTGGAGTCA	573.974687972949	0.35699788498791
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GAGTCAATTGAC	574.004386865093	0.480404850938733
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GTCATCCAACCA	574.033965821421	0.257299362552237
GTCATTGCTGAA	574.041930662023	0.476033091872803
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GTCTTGGAGTCA	574.122870914323	0.539958685820193
TCTTCACAGTCA	574.129932612228	0.297260593680182
ATTCTTATGAC	574.150233235032	0.901130203611143
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CAGTTACAGTCA	574.230804353989	0.53510759061023
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GTTGACTCAGA	574.26394064006	0.290966152967743
ACTGAGCAGTCA	574.271569074308	0.57605706307713
GTCATTGCTTAA	574.292494485435	0.35440157111441
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AGTTCATATGAC	574.317078349116	0.359123631012447
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GAAGACTATGAC	574.333048894729	0.526091046124415
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CATCATGACCCA	574.445417209526	0.251748324269458
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ACTCATACTCGA	574.612544638207	0.276715141458952
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GTCATACGGAGA	574.664643018086	0.644161666208513
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ACTACCTGACTC	574.677602955921	0.192769895753849
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GTCATCCCATGA	574.720226647176	0.413414265334425
CGTCACCATTTA	574.726240502429	0.320394975301556
GAAGAATTACTC	574.726454413097	0.633213250914846
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GTCATCAGTGTA	575.062614835286	0.33428204091418
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TGACAGATATCA	575.16966476136	0.63714633116601
CCACTGAATGAC	575.170394723955	0.242658269503043
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AAACTATGACCC	575.207920683573	0.228923028798587
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GTCATTAACCTCA	575.247614973585	0.53891349168897
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GAGTCAGGTACC	575.303002100969	0.391271807042205
ACTTTAAGAGTC	575.305346697533	1.08999207485567
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TAAAGTGTGAGA	575.32691487596	0.115809011481574
CCTTATTATGAG	575.328001562989	0.654660595122714
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GTAATCGACTCA	575.389892054842	0.45383189363682
CACGATTGCTCA	575.402594778827	0.477420786280001
AAATCCTATGAC	575.411143870909	0.0950116697523934
CAGCTAAGTGAC	575.421190121508	0.29262364788626
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AGACATATGACG	575.477504364203	0.524830623759955

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AGTCACGGATAG	575.494582345304	0.270171138249226
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CAGTCAGCGGAC	575.631203213805	0.539301094715887
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TAGGCAGAGTCA	578.370799142043	0.282851482495796
GTAAGAGTCGAC	578.379503672714	0.272494879672495
AGTGACGGTGAC	578.385609177201	0.300157817702872
AAAGCCGATGAC	578.393206504835	0.304725450918144
AATCATCTATGA	578.394134693291	0.534183436739917
ACACAAGTCATA	578.421389160498	0.530543345755953
TATTTGACGTCA	578.423111565133	0.668960353830941
ATTTAACATGAC	578.424079373899	0.606707997418746
GAGTCAGGTTTA	578.427963221237	0.332214181652502
GTTTACGCGTCA	578.42861888771	0.173750571656711
ACTCATCGGTAA	578.436924514897	0.622467336327754
AGGCCCGAGTCA	578.461971672746	0.623127799942286
GGACAAAATGAC	578.462222565418	0.364582621295661
CGTCATCTCTTA	578.465030983688	0.210216903155327
CGTGATTGTGAC	578.476053801794	0.523080664496802

AAGTTGATTCAT	578.484369108912	0.44572185450802
TAGTACGCGTCA	578.492266562589	0.583848493569538
GCGTACGGTGAC	578.520147934722	0.643192791174727
GCTGCAGATGAC	578.52024859673	0.544612396209765
CAAGCCGCGTCA	578.523518424695	0.457813957706905
CCGAGATTAGTC	578.531837841229	0.382211071547893
CCGTTGATGACG	578.588305500892	0.39162322992476
GGCAACTCTGAC	578.589618834127	0.662600409374538
ACTGGTGGTGAC	578.598835909764	0.341674506015928
AAGGGTTATGAC	578.599781019695	0.432490147056837
AGTCACTCCCG	578.601397060129	0.37030493704708
AGTCACGCGATC	578.6107027117	0.324110130722235
ATGAGCAAAGG	578.639665745266	0.194567607214913
ATGAGTAGTATC	578.674578303469	0.314190681021418
CGTCATTAAGTA	578.678052667184	0.383384245090387
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GTCATGCTAACA	578.685297307432	0.557466113906315
TCGGTCACGTCA	578.688309294377	0.596873630271492
TGACACAACCCA	578.690847881695	0.473343328867972
GGCATTTCGTCA	578.690936076887	0.584974213551577
AGTGACCATGAC	578.691468937999	0.372840131304594
AAACAAATGACA	578.697622495644	0.429467297695691
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CTACGCGAGTCA	578.714060001448	0.478114895201779
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ACTCATCGGTGC	578.749409614126	0.661391994054768
CTTGCTCATGAC	578.764963283535	0.321597266570949
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GTTCCAATGACA	578.837744081443	0.491020441406579
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GTCATCTCTAAA	578.856597553238	0.219156010773634
GAGTCAATGATA	578.864119836147	0.414159200274083
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CAGCATTTGTCA	579.357321989542	0.459769117970621
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GTCATTTACTAA	579.393554846099	0.54968739180749
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CATCCAATGACA	579.575690521753	0.554070929916916
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GTAAGAGTGTCA	579.610284155136	0.334033291869458
CGCTCCGATGAC	579.626565487172	0.475113884686532
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GACCTCGGTGAC	579.78274929233	0.562194011090327
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AGAGTCAAGGCC	581.012056081921	0.449550995913558
TGACGTAAGCA	581.020258482224	0.631746051378359
ATAACTGACACA	581.024340454658	0.32625703484298
CATATCCAGTCA	581.030914597945	0.182287365603316
TCCAATTAATAA	581.033249450791	0.396762520234533
GGGTCTGTGTCA	581.05250416842	0.426303233111286
ATGACATTATCA	581.06707847128	0.504602717573772
CATAAATGTGAC	581.067903554183	0.856070878900636
ACCCTCTATGAC	581.08386794177	0.275087057985175
CCCACGGTGACA	581.084886173403	0.0979620040564358
GACTTACATGAC	581.092302863329	0.543618646931754
ATGACGCGCAGA	581.0958614565	0.396619935954372
ATCCGATTATGA	581.097688293058	0.718173481792964
ATGACAGCGATG	581.099901464184	0.261147343483158
GACTAATAACGA	581.105310405511	0.63780075024171
GTCATCTCGGTA	581.107170891114	0.339714636096131
GTCATATGTTGA	581.111828688232	0.449901922531075
TCAACTGACACA	581.176559549787	0.385731026880308

TCCCTATAGTCA	581.208449960206	0.350119516890118
TGACCTGTCACA	581.212652478197	0.22654443156919
CAGCCCTGACTC	581.226946229493	0.14983625510953
TAAGATAAGTCA	581.227148268887	0.171620645229416
GTAATAAGTCA	581.247020867771	0.825346205476269
CGAGTGGAGTCA	581.250013787511	0.389833070454301
ACTCATAACTAA	581.254169703874	0.376113562636753
GGCCTATGTGAC	581.265548582879	0.833135702241397
TGACACGTACAA	581.279805161877	0.513045016001658
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ATAAGATTCATA	581.287507478979	0.261224952798614
ATTCTGACTGCA	581.294909229487	0.448597324388053
GTCATATAAATA	581.300096898101	0.307623518060358
GAGTGGCTCACC	581.304794582045	0.280233345548253
TCGACATCGTCA	581.305292848877	0.51884974988416
CTCGGTAGTGAC	581.305679374935	0.600484649219176
TGAATCAGAGCA	581.306397960914	0.380286979576725
ATGAGTATGATG	581.311595559695	0.2402653367678
TGACTGGACGCA	581.312815687269	0.780466234160223
CAGTTTCCGTCA	581.318637764252	0.460545518768033
AGTCACTACCGA	581.327301669526	0.509514036822075
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CTTTGTGATGAC	581.339073743836	0.46513334788262
GTCTATCCGTCA	581.348501636969	0.495529918836906
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ACTCTGACATAT	581.373804665772	0.371757972936052
CTTATGGGTGAC	581.386747837681	0.967121064438301
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TCTGTTGACACA	581.570031218644	0.40770106124541
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GACAGGTGACGC	581.615240860518	0.342175785754714

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GTCATAGACCCA	581.68563662622	0.347761646859593
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TGAGTCTACGAA	581.920013285404	0.543380677403371
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GAGACTTACTCA	582.026156931911	0.474596789229232
GTCATAGCGCCA	582.036804116726	0.543020001134304
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GTCATATCAAAA	582.151219706511	0.424376599029886
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AGGTCTTATGAC	582.230187543727	0.310794538051204
GTCATCACGCAA	582.230687856886	0.284618585444289
ATATACTCGTCA	582.231898050669	0.587825950766337
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GTCATCCATACA	582.348895520129	0.29443450039974
ACCTTAGATGAC	582.364540631454	0.568756927502742
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GTCACCACATTA	582.44195555864	0.317065550264282
CAGACATAGTCA	582.445503365212	0.886188685573282
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ATCCCAGATGAC	582.508774332784	0.411765414264098
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TGACGTAAGTAA	582.784400458253	0.0537950557403904
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GACACACATGAC	582.813422677162	0.63895744485806
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GAATCCGAGTCA	582.857810196175	0.4359607019968
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ACTCAGACTCAC	583.007563456739	0.416178713047705
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GTCACCATGACA	583.108697483051	0.211742211534397
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ACTTAAGACTAA	583.413048167499	0.678289940562005
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CACGTCACGCGA	583.433495536638	0.243383769367372
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GCAAAGCATGAC	583.445062957997	0.469870673203749
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TGACATTTTAAA	583.528992690763	0.603817327487699
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AGTCAGACTCAG	583.561346613209	0.402975559203035
GTCACCGATTAA	583.578097383418	0.563841152035855
GACTAATCCGCA	583.58181985572	0.570931837281061
ACTACAGGTGAC	583.594114515375	0.390639365524019
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GTCATAACCACA	583.623584969478	0.469987314338873
AGTGTCAGAGTC	583.628483682066	0.157628074191584
CAGGTAGATGAC	583.638223359586	0.50646685642749
CATGGCTGACAC	583.638955239213	0.565701708766686
GTCTGCGGTCA	583.648872938941	0.570152430654291
ATACTATGACCC	583.652285727175	0.168114611048476
TGCGTCAGGAAA	583.652995713594	0.137441049462936
ACGGACTTGTCA	583.66823757095	0.574069270675175
ACGTGATGACCA	583.669178686485	0.43998560950306
AGTCACGACACC	583.686309989364	0.363726000103988
ATCGCCTAGTCA	583.691872834547	0.247624896971036
CGACTTGATGAC	583.692090479929	0.52525352189738
CTAAGTGAATCA	583.697358896914	0.543920392267357
CATACTGTCATC	583.700332066155	0.22150276428474
GTGGCCGCGTCA	583.700628497013	0.89813555833939
TCCGCCTAGTCA	583.70529148227	0.574771861149204
ACGTCACCTGGC	583.70797547205	0.594242061212303
GTCATTTTAGTA	583.710404402776	0.529475451799573
CATGTATGTGAC	583.725353955644	0.469226323463254
CAGAATTAATAA	583.730137548052	0.422741279782591
CATGGTGATGAC	583.743281954608	0.358291888049656
AAGTATCGTCAC	583.748999152545	0.177940305945702
CTTCCTCAGTCA	583.749518186596	0.188636964692481
CCACAGGAGTCA	583.757390408439	0.730749908027227
AACGGATGACCA	583.762481951288	0.516160873496355
GTCATCTGCGAC	583.768274345839	0.767569224341828
CGATGACTTTTC	583.77095180162	0.269837075828252
ACAGACCAGTCA	583.78291609739	0.589216328267701
GTCATTGTACGA	583.787719843265	0.563318647967786

ACTTATCCGTCA	583.793811535932	0.24998675689294
TAGAGTGACCCA	583.793939679103	0.402513927540621
CAAACCTAGTCA	583.799594418479	0.449350809475918
ACGCGTGGTGAC	583.804171854114	0.567534881376033
GACGTGTCAACC	583.828719382414	0.550290341867829
GAGCGGTATGAC	583.83376623181	0.107723253706958
CCGGACCAGTCA	583.836392829074	0.577639486236872
TCTTCATAGTCA	583.837876509911	0.485565630605012
AGCCGGACTCAT	583.847475191727	0.586330802395174
GAAAGTAATGAC	583.84796885385	0.463965230942066
TGACGTGGGTAA	583.853214287505	0.552945913536336
TGACTCGCTTAA	583.865903633581	0.55313182063198
CGAACGTGTGAC	583.877550745669	0.689352460507693
CACGTCAGAGTC	583.88985746859	0.324367995968709
GTCACGACTGAA	583.904770516252	0.522612231643023
GTCACACAATTA	583.913275906736	0.521564310764099
ATTCTGAATCAG	583.91853933262	0.463002658763262
GTACGGTCATAC	583.925649952633	0.293504390702464
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AAGTTGTAGTCA	583.947786154945	0.394368924020053
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GAGCCTGACGCA	583.982932626463	0.701947566775173
GTCATGCCCTGA	583.98605403537	0.359971706395142
GGACCCTAGTCA	583.991831739058	0.60722769800652
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GCCATTAGTGAC	584.025506642033	0.583239930246695
ATTAGCCATGAC	584.048647953121	0.397263614801084
GAACATAATGAC	584.050265524926	0.454495293705137
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AGCACCGATGAC	584.063578908609	0.316880064444937
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GTCACCTTGATAA	584.120943685585	0.642767934275019
GAATGATGTAAC	584.122632830654	0.203765554954845
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GTCACCATAAGA	584.137181268079	0.70693039009585
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ACGTCACATTTTC	584.167989538656	0.388443502924441
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GTCACATAATCGA	584.171578896697	0.490948629689892
GTCACCGGCCGA	584.178904845867	0.543997520395052
ACGACTCAGACT	584.188658013789	0.358596347704497
GTCATTGCGAAA	584.196239434084	0.807356187267483
ATGAGTCCGTTA	584.207290066824	0.47254969568412
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GTCATTAECTGA	584.227582919398	0.633839524911606
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GAATAGTGTGAC	584.256503560976	0.240433806131885
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CCAGAAAATGAC	584.260744049173	0.531133745013977
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CAGATGTGTGAC	584.281865785713	0.535096909300486
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GTGTTGAGTCA	584.297816809904	0.352099705453275
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CAGACTGTGACA	584.304430773972	0.429879012050627
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GCGTAATATGAC	584.416673130206	0.435901357849515
CGTCAGTGACAC	584.431044499217	0.694651960079153
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CAGTCAGCGTAA	584.455854432665	0.587637331858651
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GTCACGTTACTA	584.484882473487	0.546194177525374
GACGACTCAGAC	584.489357221618	0.34418341082365
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GTCATCCACCAA	585.194532120617	0.329151865767653
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CAGCATCCGTCA	585.206102027668	0.354297666499012
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AGGGCCAGTCA	586.335282981707	0.367110613132069
GTGACGATATGA	586.347766985016	0.364799582387677
ACGTCACAAAC	586.356698554169	0.312557508659079
CTTAGTTATGAC	586.358407642934	0.461732139853932
GCTGACTAGTCA	586.361877156296	0.752538571575586
GCGTCACATCAA	586.364685123488	0.499680369617347
ACTTACATGACG	586.367926661687	0.79953505070542
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GTACTAGGTGAC	586.382174999399	0.678204974977603
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CACGTCACGGAA	586.389749154885	0.54527003151591
TGACTCGGATCA	586.392172360484	0.547881705432212
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AGTTTGTGTGAC	586.394806664516	0.522920472577752
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AGTCACTTCAAC	586.440043512179	0.479689732804232
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GTCATCTTAACA	586.451616004545	0.545641284173875
GACGTGAATGAC	586.456408056235	0.213871117996695
CGTCATTAACAC	586.479776469429	0.447409018188089
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CTGCAAATGACA	586.501189044936	0.614705774026861
GTCATAGCGACA	586.505152309423	0.632238280567458
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AGAACC CGGTCA	588.846099658625	0.572411078946952
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CCGACAGATGAC	588.862039962541	0.581614433184796
AGAGGCGTCATC	588.862134326234	0.141566979429536
TCGTCTAAGTCA	588.864726038671	0.376910739813965
CTGTTGTAGTCA	588.872202845671	0.395825376924507
TGATTCATGCCA	588.874378699701	0.722680390314721
TATATAGACTCA	588.886837587518	0.578952591036533
AAATTGGTGACA	588.887358087084	0.230497512134324
CAGGCGCGTCAC	588.901113467055	0.457775077431517
CAATTAGTGACA	588.912850984606	0.60139399929373
GCAGATCCGTCA	588.925126821718	0.311724222777938
CTAGTCCAGTCA	588.959461883788	0.35253830246195
GACTCACGAAGC	588.962862940631	0.36863300084062
CAGTGACGATAC	588.962894392752	0.365071808510221
AGCACGCAGTCA	588.966511589138	0.558194825676678
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CCCAGCGAGTCA	588.997721305618	0.466548967920219
GAAAGGGAGTCA	589.041703574504	0.198048478884147
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ATGGAAGATGAC	589.065044240215	0.423851044732545
CAGATATGACCC	589.067940643728	0.510008625952471
TGACAAGTTCAA	589.068878162684	0.231684491090026
ACGAGCGTGACT	589.099504580064	0.36486646001513
ATGAGTCCGCAA	589.113616309345	0.389134975714881
ACGTGATGTGAC	589.115622385428	0.343449388711188
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GTCACTCGTGAA	589.132214572555	0.708657170226141
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GATGATATGACC	589.17365266758	0.587168410106399
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ACTCATAATGGA	589.174844114072	0.451351752025407

GAACTATGTGAC	589.178249016965	0.771375963461543
CCCCAGATGACG	589.180172428896	0.428774214272091
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GTCATGGTCACA	590.059753928027	0.397124541690271
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GTCATCCAAAGA	590.148081779293	0.5031392496919
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ATTGCGAATGAC	590.281804924997	0.367307460445014
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GACAGTGAATCA	591.447364128458	0.291994253730495
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GACTCAGACTTA	591.595886001688	0.571164340309269
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CAGTTGACTGAA	591.615150929735	0.217024044890331
GTCATTTACCCA	591.627521909555	0.37722935852252
AGTCACGCCGAA	591.645880750479	0.546861191508395
AGTCACTTGGGC	591.648405462663	0.210325119601405
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AGTCAGAGCAGA	591.673255963971	0.412712205850919
TGACACGTTGCA	591.712614162103	0.301312199138774
CTGATCACGTCA	591.748458924802	0.490475579150166
AGACGCTATGAC	591.74971348199	0.518125301630386
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AGTGCAAATGAC	591.782306612696	0.269375737361046
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GCCCTTGTGACA	591.797593543955	0.696182921406605
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CGTACTTGACTC	591.806627278388	0.692706773449496
GCGCTTTATGAC	591.841846422716	0.423300429837904
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GTCAACTTATGA	591.863299010664	0.907248315054787
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GTCATTCTACTA	591.90050550825	0.27064805357813
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GTCACAACGTCA	591.942001293308	0.621634354603552
AGCCAAGATGAC	591.94872092679	0.775236074850483
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ACTCATCGCGTG	594.373340773573	0.651443527751438
GTGTACTCGTCA	594.389019427836	0.820402371059171
GTACACAATGAC	594.397268382472	0.498913229647416
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CTACGAGAGTCA	594.412561183407	0.376575880055084
GGATGACAAGAC	594.415228489153	0.156371159146916
TCCCTTGCGTCA	594.422885278784	0.10555134290471
AACGTTTGTGAC	594.441253926967	0.312639512911891
GTAACATAGTCA	594.443428093584	0.299252652899953
AATTTCTGACTG	594.448806928413	0.451115607012487
CACCCGATGACG	594.450151925734	0.607791142941393
ATACTACTCATC	594.471476560338	0.238070665614063
TAAATGTATCA	594.474922473898	0.222673803647866
AAGCCGTGACTA	594.480203438034	0.333283129457671
GCAGTATATGAC	594.480891522671	0.537503926164095
GTCATGCGAATA	594.483547690184	0.433247874455674
CCTATGATGTAA	594.484805410412	0.429521254904091
AGGCCATGACAC	594.48585134973	0.32730506105808
GTCATCAACTTA	594.491758004658	0.517119060636152
GTCACCCAGACA	594.492162932284	0.48961769301999
ATGAGACAGTCA	594.497024732038	0.509346019049773
TATAATGTCATA	594.500628257127	0.286378697866256
CGTGCTGATGAC	594.509505294981	0.559827652304412
GTATGACCCGAC	594.510130925151	0.453121637570965
ACGTCACCTGTG	594.523193915367	0.357610953881383
CGTTTGACGTCA	594.529870504306	0.551256180644301
ACACATGACACT	594.536898648354	0.329906195711618

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ATGACACTCGAA	594.556447261098	0.326732788097094
CAATAGTCAACG	594.571256490757	0.505832994229144
GCAGATCTGTCA	594.588209640755	0.502843699105912
ATGATGCAATAA	594.591047201644	0.289772545074242
TGAATCAGACAA	594.606341429763	0.277958342025233
TGACGTACCGCA	594.611269681265	0.682836469127849
GTCAATCGTGAC	594.61813303772	0.663551166118588
GGGTCATAATGA	594.618912009171	0.444226410725924
GTA AATTGCTCA	594.634200548087	0.5009456925756
ATGACGAACTAA	594.644082089697	0.324610006390147
GCAGGTGACCCA	594.657239203058	0.463044367282656
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GTCATAGAAGTA	594.660419170028	0.321111727601329
AGACTCACGATA	594.664158356851	0.827017541822154
GTCATAACCAAC	594.677207205602	0.667103579806952
CAGGTGTGACCC	594.68479198603	0.973236816658244
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ATGACTGGGGAC	594.715400832859	0.356487541466476
ATGACGAGCATG	594.721270850232	0.246359441756667
ATAGTACTCACC	594.721705969115	0.207906693547629
TCACCGATATGA	594.729537269761	0.473981868952855
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GTCATCTCCGCA	594.919946186342	0.502079502706462
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GTCATTAACATA	594.927374578162	0.386889687599059
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ACTCGCGTGACT	594.944999270031	0.18549650653397
GTCATCCGCATA	594.949267059265	0.326258471597255
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GACGCATTAGTC	595.053076014489	0.500241452989075
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GTCACAGTCGTA	595.089097654745	0.545679404814322
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ATTAAACTGTCA	595.201992357957	0.318861564795325
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GATGATGACCGA	595.256203254112	0.431287883344371
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ACGTCACATCGG	595.313659171151	0.275183034815863
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ACTCATACTGAT	597.040941696224	0.311323648023578
TCAGTAATGTCA	597.044536924126	0.47293291839991
AAACGTGAGTCG	597.05849061041	0.415202168294097
AACCGCGACTCA	597.0587921749	0.310051958395093
CGCACGAATGAC	597.059364304451	0.475847806270424
GAAACATGACAC	597.067456795746	0.332882102307869
AGGACCTAGTCA	597.073767259584	0.538081488887372
GTCACCATCGAC	597.083650372734	0.442802663635918
ATGACCACCTTCA	597.103684106026	0.251435797512669
ATGACAAGGTTA	597.104716852166	0.261759107076521
AGTCAGCAGTCA	597.105955332939	0.296860919871039
ACTCATAATATG	597.106963896675	0.363767337183455
ATGATGTGTTCA	597.107885640535	0.395186179988212
ATACGATATGAC	597.154539019054	0.335869998336923
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CGTCATATGAAC	597.194331182977	0.408595964853983
ACAACCTGACT	597.197947234627	0.32225668913578
ACGGATCATGAC	597.205702148737	0.729540328064774
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CTTGTGTGTCA	597.222985461045	0.274616360398092
GAGTTTTATGAC	597.227083063159	0.420890383593167
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GAGTCAGTTTAA	597.234162063591	0.327900586868939

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GTCATATCAAAC	597.26036958864	0.642387031462951
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GAGTAATGTGAC	597.279655271895	0.357850808826033
GGGCCGTATGAC	597.295334095892	0.393161984578973
GGTTTGTATGAC	597.315947345078	0.341479091750582
GTAATCGTGTCA	597.32199215729	0.500119055275285
ATGACACTCGAC	597.323435743858	0.360003570720634
CATGAGTGTGAC	597.324154997135	0.51397480598391
GAGGCATGACAC	597.330581922747	0.296813657803792
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TGAGTACAAATCA	599.903535546375	0.56619302108131
AACACGTGAGTC	599.906893151495	0.777545263728272
ACGGAGTGAGTC	599.906964997394	0.461896348377794
ACGTCACCAT	599.907244069301	0.457413883305651
TCTTCAGACTCA	599.915004028062	0.327474914695166
GCGTGACATGAC	599.91806699429	0.433011541159265
GTCATATAGAAC	599.918210851114	0.537748902165943
GTCATGCAAGAA	599.922863096577	0.354398087880107
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CATGTAAGTGAC	599.93311660383	0.479733270449608
AGTCACTCCAT	599.939256976478	0.136435792203828
ACACCTCGTCAT	599.940985738767	0.365267171590416
CTAGCGGAGTCA	599.943735239577	0.460057162329094
CGTCCTGATGAC	599.950586273678	0.589575938914695
GATCGACAGTCA	599.965241265287	0.550304764832495
GTCACAGTAGAC	599.981810326588	0.589870574395193
GAGGACGATGAC	599.990123895163	0.129187014763329
GTCATCGCTCTA	599.990742852042	0.353752327589406
ACTGTAAGTCAC	599.992786383235	0.370568880867673
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AAAACGTGACGC	600.003146700195	0.682155553334145

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ATATGACCTAAT	600.047442919014	0.297697845475653
GTC CCTTACTCA	600.054625281516	0.356131512804223
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CTTTACATGTCA	600.088498058063	0.188566557105737
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AGTCACTCTCC	600.110861385949	0.334561645389023
AGGCCTTGTGAT	600.113644686229	0.326590315842865
GCCAATAATGAC	600.118408744931	0.180200205782838
AAGTATTAGTCT	600.131814680149	0.392375477898494
AACTATGATGAC	600.135037428451	0.432278158352364
AACATTGAATCA	600.142128502503	0.332059650505226
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GGTGCGAATGAC	600.184217582969	0.40936658741745
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ACTCATACCGAG	602.41731165386	0.466824117162998
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GAGTCAATAAGC	602.487444721003	0.4064192524306
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GTCATCCATAA	604.920272881102	0.424168942083963
CAGTCAGCGTAC	604.921725792781	0.580717622478601
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TCGACTACGTCA	604.982655172388	0.615592124040824
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GTCATCTACAAC	605.061906844875	0.609736364655963
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GTCACCTCGTCA	605.200443972626	0.508017086186451
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GACTTTGCGTCA	607.65459304287	0.816747905265484
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GTCATAGTCCCA	607.670398940433	0.41640144628289
TGAATTTGGTCA	607.691754780608	0.321894023633355
GTCATAATTAAA	607.704379029165	0.324024199782837
ATGGCTAAGTCA	607.70699168143	0.474217144772428
CTGTAGTAGTCA	607.708187998631	0.678451107013813
CTCAAATGGTCA	607.712725521183	0.599632518442378
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GACTAATCCTTA	607.731199447127	0.421811379566637
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GTCACGACTTGA	607.83030612581	0.474488345133233
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CACGCGTATGAC	607.858216416963	0.596844246798911
ACCCTAGTGACT	607.862834371677	0.425555380887127
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GAGTCAGGATCC	610.231341815174	0.31830209915702
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TATCATGACCCA	610.236920781306	0.15916943741897
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TACGCAGAGTCA	610.249475698348	0.445943184818488
GTCACACCACGA	610.266947052744	0.677673761795923
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ATCTCAGTGACA	612.580200568971	0.566629771967379
ATCAATGGCTCA	612.585227136826	0.538858179066825
CGTCATTAGTTC	612.595323512183	0.444830915437447
AGAAATAATGAC	612.598671927972	0.414568704914649
AGTCACTCCAAC	612.604704410078	0.306792182897344
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AGAGTCAAAACA	612.620325237322	0.540976749034109
CATCATCTGTCA	612.63117693834	0.309806024971229
TCAACAGACTCA	612.638792898535	0.4512135331948
GAGTCAGTTCAA	612.656866906713	0.516811319661614
CACGTCAGACTG	612.660402109323	0.449826709166174

ACTTGAATGAC	612.682283267298	0.381420415504556
AGTCATGGGGTA	612.697208202877	0.170697526589548
ACTCATATGGTG	612.709229868896	0.370374051367364
AGTATGTGTGAC	612.714079737647	0.154685399331381
GAGTCAGGAAGA	612.7147870288	0.376619653711677
ACATTGATTCAT	612.7162494695	0.297801405714864
CTCCTGTAGTCA	612.725709340929	0.637681807377653
ATTTCTGTGACA	612.728484803845	0.598523544349621
ACTTTGAATGAC	612.735978229437	0.415059720025183
CCGTCTGAATCA	612.736322125683	0.157851803950105
GCGGCATGACAC	612.745714526056	0.428991494463541
CGGCAATATGAC	612.748390711251	0.435535840448951
ATGACCACTATG	612.763375557869	0.339001685379801
GCTGCGCATGAC	612.763543550877	0.575840224454783
AATCAAGTCACA	612.789721143565	0.325682265335502
AAAATAGCGTCA	612.798777202767	0.591128302901829
CTGCAAGACTCA	612.829599276398	0.476062699146885
GTCATTCAAGAC	612.83610729554	0.612270674927413
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GTCATTGTTACA	612.850669931399	0.559736593604994
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ATGACACCCAAT	612.859658048547	0.240632686234448
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CCTTACGCGTCA	612.878149045307	0.368614683444959
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AACTAAGATGAC	612.89752870216	0.391389284436518
GTCATAGGAGAA	612.910078549382	0.46743073736548
GATCTGAATGAC	612.910209180337	0.470202589980388
AGTCAGACCACT	612.910254122376	0.394073968147085
TATGACGGGACA	612.914357902207	0.20019169467386
CAATTGTGACGG	612.920890580272	0.594897249514664
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ACTGATCATGAC	612.959864290122	0.629242731036668
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AGCGATATGTC	613.055245589528	0.718560497754449

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GCCTCTACGTCA	613.291686196648	0.418004156833239
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CACGTTAAGTCA	613.374746489946	0.730864895113906
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AGACTAATACCG	613.470447791735	0.450131185437648
TAGAACACGTAA	613.482785148754	0.428135066399902
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TACCCGGTGACA	613.496003508294	0.467968175792646
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AAGGTCAATGAC	615.063658787837	0.346055796525592
AGTCACGGTGCC	615.066571474018	0.758691021947091
GACCGATGTGAC	615.090998294828	0.357289884824327
GTCATATTCAAA	615.100958733221	0.511579959883399
AGACGATATGAC	615.107942695739	0.459890978047155
GTAGCTGTGTCA	615.110643415056	0.568451891859555
GCGCAAGATGAC	615.114212362653	0.373491483755228
CCCGTGTATGAC	615.116417068321	0.392098640539972
CCCTTTGACGCA	615.116880270975	0.269495153325408

GAGATGGAGTCA	615.126033431283	0.227683040724536
CAAGACGTCATC	615.133749015677	0.332501376890456
CGTAAATCAGTC	615.142727875599	0.579354698365023
GTCACCCAAGCA	615.145086576301	0.54501006232295
GCACCAATGACA	615.15197415338	0.473618563952508
CATACAGTGACG	615.175399004353	0.678041550420191
GACTCACTTTCC	615.180032633594	0.246446598680106
ATCATTTGGTCA	615.181423021945	0.399418483672617
ATGACGCGCAGG	615.188491898392	0.315989079725814
GACTAATCGTAA	615.193284761559	0.416043121562747
GTCATAGGGAAC	615.201341589572	0.394490111181102
GCGTCACAGCTA	615.204511955537	0.522790071688494
CACGTCACCTTC	615.22320137074	0.35854018870599
GACTCTGACGAA	615.232868838033	0.6188685803585
AAAGAATTAGTC	615.238704077708	0.301934115193132
ACCCTAATGACG	615.242946705071	0.509939098137142
GCCGATCTGTCA	615.267292615335	0.616786619078393
AGTCACGCGTAA	615.299821659931	0.48056045008134
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GTCATCTCATAA	615.3054045231	0.530160634058483
GTCATTACGGAA	615.335503747915	0.296581636189319
GTCATTTGCCCA	615.339824005011	0.29528649286948
GTAACACAGTCA	615.344450387094	0.529696024245468
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ATGACGATGCGC	615.367227738326	0.422441191894902
CGCATAGTCAGA	615.368956436207	0.5065623315954
GGCCTTGTGTCA	615.374295784482	0.517300352745353
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GTCACCCCTGAC	615.397014321482	0.206392111621327
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GTCACATCAGTA	615.706717861549	0.581237259542395
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GTCATCCACACA	617.402742001915	0.357949698065532
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AATACTACTCAT	617.549154125968	0.200885890303923
AAAACAGATGAC	617.555862996997	0.249022379899559
CGTCACGTCAGA	617.561901433119	0.530152672808867
AGTCATGAGCAT	617.566267189426	0.385642335005688
ACGTCACCTGG	617.572732975068	0.468478728493904
GTCATTATGCAA	617.581510249803	0.416419780439452
ACGCAAGATGAC	617.582265380113	0.328439898287915

GCCGA ACTATGA	617.60769414002	0.74726276714976
ATATCTAATGAC	617.607980565936	0.710174183971923
GAGCGTTACTCA	617.618601852979	0.450678801290957
GGATCGGAGTCA	617.623947187774	0.419014052688037
CACTGGGATGAC	617.626524417222	0.399656119828734
ACGTCACCGAGG	617.631030111193	0.546889018947916
TGAGTCGCACAA	617.638060036888	0.359282178298714
ATGACACGGCGG	617.639628613317	0.459060223585974
ATGCTGAGTGAC	617.651830348735	0.649354017311936
GCGATACAGTCA	617.654927029257	0.309555838046066
TGAGTCCACTAA	617.688308567509	0.631876957010101
AGAGTCAAATCT	617.690299099821	0.421255256116885
ACCGCTGACGTA	617.698541274047	0.258806753358111
GTCACCTCAAAA	617.701049857146	0.414710932731928
GTCATTGCAATA	617.701144462768	0.341609539403196
TCGCCTGACGCA	617.702517270869	0.44742228961492
ATCACCAATGAC	617.70385592997	0.391130598790694
GCTCTTAATGAC	617.712498237674	0.50044412292194
GACAGCTATGAC	617.717631402744	0.363082873061069
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CACGTCAGAGTG	617.726643817158	0.307607949255711
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ATGACTTGACGC	617.761963448618	0.532465551408496
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CACACTGTCATC	617.77227428987	0.220607997931573
GGACCCTATGAC	617.78405756084	0.441784299532149
ATCAGACTCACC	617.798280045523	0.270430869344115
GAGAATTGACTC	617.815230963185	0.352403956613569
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GTGACTCGGGAA	617.870511471323	0.177262467849188
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CAGTCACGCTCG	617.891059287357	0.488652662902087
ACGCTTTATGAC	617.911901598634	0.519991585667085
GACGGTTATGAC	617.914395248517	0.507924661438824
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GAAAGCGAGTCA	618.171831650614	0.293375871464742
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GTCATCCGGCCA	618.205097079783	0.561846498957347
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CCTACTAAGTCA	619.897043909434	0.372968948073047
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ATGACGGTATCC	619.967512056558	0.498196129176672
CGCAATCTGTCA	619.96787730575	0.551407183650121
GAAGTTGATGAC	619.990439335631	0.315689828276391
TGACTAGACCAA	619.999957156864	0.642833832085455
CTGAATGGGTCA	620.01406449628	0.336993190882934
TATAAGCAGTCA	620.03415380558	0.445020824933111
CGCGATTACGCA	620.045265039628	0.344199669906068
AGACCGAATGAC	620.046749517292	0.303750077390991
AGCTGACTGTAT	620.057630589982	0.605845099908117
AGGTCGAATGAC	620.061108622765	0.368828539949559

CATAGGTGACAC	620.070640024759	0.441473785807001
ATGTCAGATGAC	620.074488617452	0.590137669706301
CCACTAGAGTCA	620.075926543463	0.288832038039915
GTCATTCTCTCA	620.084140884892	0.318165994387994
ATGAGTCCCAAG	620.093017754954	0.499657876292014
GTCATAAAATTA	620.107129295021	0.27673572327336
CGGCGTGTGTCA	620.116205376138	0.502438024921609
ATATTGCGTGAC	620.124068191614	0.496686283842746
TCTACCTAGTCA	620.124952000081	0.217340760410779
GTAGCATGACAC	620.132711863922	0.388766350250265
AGAGTCAATACG	620.135078887248	0.664882091059868
TGACACGTTAAA	620.152315396159	0.451852522930781
ATGACCATATCG	620.161750630154	0.394040468243424
ATACCAATGACG	620.162684629256	0.583180669787124
GAACTGCGTGAC	620.166313567724	0.861282516732793
ACTCATCCGGTG	620.189506775873	0.354286083538324
GTCATCCGGGAC	620.206645830892	0.327153382462712
GAATTAGTCGCA	620.206981612272	0.395754075842167
AGCAAATTAGTC	620.229212555335	0.450352966448159
GTCATCTCCCGA	620.229507807009	0.308728376289038
AATTTTGATGAC	620.232448165477	0.515360342286992
CGCTAAGTGTCA	620.233876080598	0.616833517004956
CATCTTAAGTCA	620.240797008968	0.702801232790745
AGCGCGGAGTCA	620.245984724256	0.16975089692629
TGACGCTAGCAA	620.251461828864	0.545836119432382
CCGTATTGACTC	620.258863370372	0.389149225552087
AGTCAGAGCGTC	620.262838649288	0.547666635132911
GCTTACTAGTCA	620.265622065098	0.402093810121418
CGTGCCTAGTCA	620.268373267422	0.421073831041128
GTTCTTGTGTCA	620.269326731357	0.394099060249139
AGTCACCCACG	620.272910987153	0.0869321925825533
GTTCTAGACTCA	620.277750185273	0.776647751398038
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TGACGCGTCTCA	620.339419436679	0.506321173359272
CACTTAGTGACG	620.340562862518	0.607508852900481
CAGTAATTAGTC	620.352694266616	0.436896022767287
GGGACCAATGAC	620.357355220219	0.292932192434422
GCGTAATGACCC	620.357792625963	0.488010317449513
ATGTTTGACACA	620.358384523131	0.573955000412856
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TGAGTAAGCCCA	620.404324786009	0.704382716170409
GTCACCTCATGA	620.405703399546	0.617121805848839
ATGACACTCTTC	620.410585160453	0.219117149728401
TGACGCAGGACA	620.420614750666	0.322661986719622
GACTAATATCAC	620.422855571853	0.502917179404358
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ACTCATACATTA	620.448458457411	0.154168706362677
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CAGTCACGCGAC	620.467534137588	0.345469991436934
AAACTTGTCACT	620.468065867554	0.300204531078755
GAGTTGTGACGC	620.478056480616	0.698953962949234
CAATTACGCAAC	620.482646301469	0.293804119619956
AGTCACGAGTTG	620.504783612944	0.243902321037915
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GAACACGTCTTA	620.506414211965	0.438523587091906
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ATAAGTTTGTCA	620.52191796571	0.608232680500886
AGAAAAGGTGAC	620.532595141099	0.343709116538198
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GTCATTTATGGA	620.567908179045	0.452311046804769
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CCTAAATTAGTC	620.574990750657	0.730079111293835
CGGAGGTGACAC	620.5756749051	0.48346531526519
ATCAAGTCATCG	620.576974138004	0.374468056942017
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GAAAGGTGACAC	620.622671354252	0.254054859029513
GTCATCGGTTAA	620.625180008735	0.441008808967046
GCCGACTGTGAC	620.635252748452	0.472517908658984
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CGAAGCTTATGA	620.645331156302	0.604801106708765
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GTAATGTCTGAC	620.650085302283	0.567355246676361
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GTCATATGCCCA	620.658631441502	0.436611679452916
GTCAGAGCCTTA	620.661471773159	0.828300603673862
TAAGACCAGTCA	620.695338960038	0.533256413848606
CCTCGCGAGTCA	620.699024763354	0.406495549071753
CTTCAGAATGAC	620.699803896333	0.572750670666184
GTGTCATGGTTA	620.71279160975	0.315146698821619
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AAAACCTGACT	620.769904898047	0.523094425890415
AGTTACGCGTCA	620.772423463056	0.371580060725261
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AAATTTGGTGAC	620.807662256298	0.466571098702285
GGAATGGAGTCA	620.81986331973	0.187179122503379
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GAAAATTGTGAC	620.829962231774	0.527602340346973

ATGAGGTCATCA	620.834123328152	0.329917176181162
AGTTGATATGAC	620.837564320628	0.135013282930526
TCACTATGATGA	620.856312936101	0.954330804431991
TACTGAGAGTCA	620.857063950279	0.623282105713029
GCGCTCTATGAC	620.857475865774	0.401689349128676
CGTCACAAGTCA	620.870960686574	0.370606924436866
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GTCACCTGTTGA	620.969945693134	0.317955140925756
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ATGAGTACGAGA	621.054858302695	0.324323106860634
GATGACAGCGTA	621.071525131804	0.242739634626944
AAATCTGAATCA	621.084379416411	0.347738100599469
AGAACATATGAC	621.09039255192	0.412037965246953
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ATGACATCGGCC	621.093850891965	0.658010795589649
AATCTCGTCACA	621.09431904054	0.2983182931181
ACTATTATATGA	621.108869054841	0.978720869367663
CGCCTGATATGA	621.112687840963	0.74942108147334
ATCGAGATGACG	621.115388593281	0.347922462260869
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GTCACCTCGGTAA	621.132759233244	0.654405449138793
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AGTGGCTATGAC	621.138351841337	0.339546777670769
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CCATAATGTGAC	621.160203471803	0.51721673327895
GAATGAGAGTCA	621.170444697729	0.212366233742954
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AGTAACGTCATG	621.213373080372	0.14135141026936
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GTCACCTATTTA	621.517875828946	0.480339939061849
ACTAATGAGCCA	621.519187317308	0.15218420772242
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GAGTCAATTAAC	622.328375639599	0.325499611268551
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CAGATCAATGAC	622.35393316615	0.590006739017387
GAAGTGAATGAC	622.354336156829	0.466801916368958
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GACCCGGTGACA	622.358396905378	0.57465156040379
CGTCCATGACAC	622.360315967302	0.379523507696133
CGTCATCAAGAC	622.361037438303	0.4667558041004
CTCAAAAGTGAC	622.363221136713	0.592765963960279
ACTAGTCAACAG	622.36453093967	0.863989761816334
GATCTCAGTGAC	622.366621199916	0.74693029713775
GTGTCATGAGCA	622.374007955605	0.52688648315052
CACTCTACGTCA	622.377714430766	0.279089578329706
CCCTGACTATGA	622.409953316502	0.503119050913633
CTCGTCATGTGA	622.41644317474	0.447842754079766
GTGACACGGTCA	622.417331428364	0.317360697933156
ACGGACAATGAC	622.423812721346	0.211800732451408
ACGTACGGTGAC	622.427351565212	0.345762653014454

CCGACAATGACG	622.437189836564	0.402462012313787
ACAGTCGCGTCA	622.441752422029	0.510377034084399
GTCATGCATTGA	622.443172661403	0.573558620124488
CAGTCAGCACAA	622.446362720588	0.459515021865452
CACTCCTGACTC	622.450937725181	0.330138587534885
CCTGACATGACA	622.457976432804	0.608980705201602
TCACGATAGTCA	622.460281243189	0.350279060850935
ATTAGTCTGACA	622.469895049011	0.282498843811147
AGCGTAGTGACT	622.477099854338	0.319272455722131
CAGTCAGTAAAA	622.482864230349	0.345141051019928
GTTACCTAGTCA	622.490627302769	0.360967162102709
ATACCGACTCAC	622.507744963414	0.157106381691914
ATCGATGAGCCA	622.518324508244	0.227309634140048
AGACTCAATGAC	622.519028450063	0.435467102842997
GCAAACGGTGAC	622.528167913903	0.310069038102109
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AATATCTGTGAC	622.531707699515	0.472351058796479
GACTAGTCAGCA	622.535374479625	0.335337834674161
AACGCTGTCATC	622.543062386246	0.323767860619782
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ATCATAATGACA	622.551350260691	0.313130302015334
TAATACTCGTCA	622.567969095847	0.556594526738641
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ACGAGAGATGAC	622.596810560223	0.40629186044485
ATGATGCAATGC	622.611699778305	0.313580483044404
GACTCACGAGCA	622.612607349245	0.475992618404755
ATAACATGACGC	622.6376760672	0.32847770461062
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AGAATAAATGAC	622.652098919836	0.283380623487366
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GTCATATAGTTA	623.092462851019	0.431504988062999
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GTCATCGGGCTA	623.119049435197	0.310843245940876
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ATGACGTCTTTA	623.227759876926	0.436574278200553
GAAATTGATGAC	623.238518961663	0.326288138346872
GCTTACAAGTCA	623.243855910363	0.590646514097809
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CGTCATTGATAG	623.250320769173	0.124758074510813
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ATGACATGATTG	623.283474227589	0.33851268691414
GAGTCAATATAC	623.284528975192	0.436285662892095
ATGCGATATGAC	623.299815213002	0.475294008684803
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GTCATGATTCCA	623.320992601534	0.632398072164548
AGCTCGTGACAC	623.327409395465	0.484804205396484
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GATTACATGAC	623.342491585518	0.624753793353842
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TAGATTAAGTCA	623.377925328908	0.247413047261362
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CACGACAAGTCA	623.415763609835	0.397503969086052
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ACTCACCGGTGA	623.482719587529	0.50378166937746
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CATTTAATGACG	623.515675698381	0.680373214659019
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TAATTCGCGTCA	623.65657720411	0.35835500502709
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CTTCGTGACGGA	624.610665150668	0.629230938259508
CAGTTATGTGAC	624.610666953181	0.487991760439494
GACATTAAGTCA	624.625384398647	0.541491922669136
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CTGATTTGACTC	624.644687373656	0.436224448779408
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AGTCACCCACA	624.648928515473	0.347104858000295
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AGACATACGTCA	624.652531909345	0.344693256538219
ACGTAATTAGTC	624.65367702752	0.514988560526627
TACTTTGAGTAA	624.65514772697	0.413926428194287
ACGTCAGAGTTC	624.657326879541	0.542448951977166
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AGTCACGGATTG	624.674815392379	0.281097496826419
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TCACCTCAGTCA	624.683661321218	0.231148891966156
CTTCTAGTATGA	624.711128264738	0.594904915146993
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GTCATGAATCAA	624.718615433355	0.387247496354281
CTCCAATTATGA	624.727807084162	0.5292313747085
TAGATTGACTGA	624.730177264721	0.245319278650324
GCGTCATGCCGA	624.730726421978	0.752309494547973
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GCCGCTGACACA	624.776371843275	0.266604764489703
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AGCTGTACGTCA	624.778859951858	0.521292082274937
CAGGTTGACTGA	624.819113731977	0.37414719150946
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GTCATTTACAAA	624.822220517565	0.492340211046097
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CCGTTGTATGAC	626.917208792591	0.338247639239293
ATGACGTCTTTC	626.94239255406	0.367695738542925
CGTCATCTCCCA	626.967519532233	0.306037218240618
GCACAGAATGAC	626.969806604868	0.72427130960071
TCATAATTCGGA	626.972439501727	0.913743068951792
ATTTAGGATGAC	626.986976105614	0.441649248107608
AGTGTCATGTAT	626.990602919872	0.25501634470258
AATTTTAGTGAC	627.010149713637	0.420532008010754
CAGAGGTGACAC	627.017360008787	0.329341138954557
AAAAGTGGTGAC	627.04480433635	0.409332667320371
AAGGCACAGTCA	627.049375046589	0.422275290756459
GTGTCATGAATA	627.05148741559	0.300683550421223
CGTTTTCCGTCA	627.061018659432	0.289826711277593
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ATTTTACGTGAC	627.080929283511	0.393220405340998
ATGAGTCTCTTA	627.092648694169	0.581439485329582
TGGCTCATCACA	627.098223687285	0.41251311140072
GGCTGGTATGAC	627.098648407914	0.350015460547808
AGAGTCAGGAGC	627.114224719772	0.379767449250687
AACTACGCGTCA	627.118014935229	0.471681076702655
AGTTGTGTCAAC	627.140687394868	0.339505978714455
GTTTCAGTGTCA	627.145630895439	0.357469879388945
ACGTCAGAATAC	627.153127818317	0.433278792476623
GAGTCAATTAGA	627.159649368795	0.273325739936551
ACACCCGAGTCA	627.173651762519	0.369287893794322
GGTTCGTGTGAC	627.174592964302	0.489097044662176
GAGTCAGGGCCA	627.175581198355	0.29649521401473
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ATACGTTATGAC	627.195744914057	0.387690557022783
GTGAGTCTGCAA	627.199176519828	0.471033629856864
GAGTCAAGCTCC	627.20195490607	0.543405615455231
CTTCATCCGTCA	627.202825817941	0.386464259441641
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GTCATCCATCAC	627.217172834605	0.279642059662744
GTTTCGCGTCA	627.231905517951	0.614400362717457
CATGCGGATGAC	627.238206453243	0.647365975731151
ACTCATAAAATG	627.238914714316	0.610521699751115
ATTGAGTGTGAC	627.241901535569	0.152918287932241
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AGTCACTCCACC	627.256415408971	0.260829216909732
GTATTGCGTGAC	627.267900069372	0.24776979060478
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AGATTATGACCC	627.276206871554	0.267820606252097
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GAGCCCTAGTCA	627.304220353887	0.510699216855074
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GTCCTCATGACA	627.477063998171	0.512726329132205
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GCCGCTAATGAC	628.140035236248	0.523910531661754
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GTCATGTACTTA	628.169804411188	0.522523933290971
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GTCATCCATCCA	628.214340005417	0.248470814061194
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ATAACGTCACCA	629.247787129188	0.526571817133429
GTCATCGATCAA	629.258637995991	0.275971402062451
CGTCATCTCCAA	629.269093177859	0.363785219094231
ACTGAAATGACA	629.273296825294	0.432617590927807
CCCTAGCAGTCA	629.275545329755	0.428689384658751
CCCTAGGATGAC	629.309072029523	0.469845145638826
GGTACGTGTGAC	629.317363160362	0.443263129373623
GTATACAGTGAC	629.318303490674	0.578553291552169
CTTATCTGTGAC	629.318727777653	0.163763145067314
ATGTGACAGTCA	629.319894267782	0.381548073758477
AAAAGCGGTGAC	629.32517935797	0.284859702902977
CGATATGTCAGA	629.329696195504	0.292225219996356
GTCATAAGCCTA	629.334368052049	0.326181120717024

CCTGGAATGACG	629.337875235056	0.543727898463682
ATGTTTGTGTCA	629.344767613406	0.412329017800745
GTCATAGAGGGA	629.354073973512	0.214948865636754
CGTCAGAGTAAC	629.354330837187	0.688603518471003
GCGTTGACTCA	629.355993620222	0.731148978092378
TATGCAATGACA	629.359562076863	0.325305571461612
GTCATAGAGCTA	629.375299076969	0.348861286980444
CACCCGTATGAC	629.376715274829	0.18735340535071
ATCTCGGTGACA	629.377576041838	0.783909651437262
CACATGCATGAC	629.405202908013	0.407748091618394
CTCGTTAAGTCA	629.406320805736	0.695281033027917
AGAGCGTACTG	629.410888588654	0.272309090783822
ATGACGCGCCGG	629.413505405701	0.538656750958655
GTGACACGCAAC	629.422749384109	0.554100821245234
GATCTATAGTCA	629.427387038096	0.22455380992632
ACGATCCATGAC	629.428489164004	0.472396923175329
GTCACAACCTGA	629.440558729076	0.37419609329667
AAATTTTCGTCA	629.447912360454	0.62307312060053
AAGCTCTGACTT	629.452093362328	0.273402599481212
ACGTCACATCCG	629.463636324115	0.319324331427751
AGCTCAGATGAC	629.465159135085	0.186351359592099
AACTTCGTGAGA	629.466080306457	0.431028436073542
AATCCTAGTGAC	629.466119549103	0.501435355304623
TGACCCATCAAA	629.475322605744	0.426973591963334
ATGTCACCGACA	629.487207959996	0.403129317525985
ACTCATTGGAGG	629.487734304007	0.46816945101775
ACGTCACATAGC	629.49767482236	0.341565825661649
ACACCATAGTCA	629.503329079618	0.403394383695073
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AGACTAATACCT	629.652237704002	0.36257199310155
ATGACGAGAGTC	629.653738952877	0.483669872556698

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GAAACTGTGTCA	630.813645340845	0.531517768670321
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GCGTCACAGCGA	631.507683842124	0.459162335845793
GCTGACAGATAC	631.517935156063	0.63855122007598
ATGCTGTACAT	631.518039246078	0.148203706973998
TACTGCATGACA	631.520737040566	0.240202726455887
CACCCTGTCATA	631.521472673585	0.243614928788846
CGTCATTCCAAA	631.543996400891	0.257428883457122
AGACTCAGACTG	631.544029969691	0.668488759588668
GTCGGGGAGTCA	631.551859401653	0.257251005325341
GTCACCCACGTA	631.552748702245	0.373920178491472
ACGTCACCTCTGA	631.570343495041	0.340377377521543
ATGACAGTACCC	631.575661845752	0.519522175037676
AACATAGTGTC	631.577950280074	0.537396422625863
CGTACATAGTCA	631.585812460745	0.511088979918517
GCTTCAAATGAC	631.588358131352	0.499709592375782
TGACTAGAAGCA	631.594863591884	0.612506540274376
TAAGAGTCTTAA	631.594979022004	0.239408295163957
CCACGGTGACAA	631.598942245576	0.411107916154345
TAGAGAGTCAGA	631.599097296935	0.135309287650102

CTGTACTTATGA	631.602557934486	0.786816464892841
GACTAATCCAGA	631.607967976159	0.676495768219089
CACTCACAGTCA	631.608753991275	0.370345247675503
GACAGTGGTGAC	631.612236322573	0.249038144568375
AAATACGTCAAC	631.625036308783	0.29438021579281
TGACTGCACGAA	631.627307085535	0.605059972464247
CACTTGTGACGG	631.649740025825	0.47191951252956
CTAGCGAATGAC	631.690271858827	0.390192627030323
GTCACATCGCAA	631.701782401512	0.49861397244949
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GACACAGAGTCA	631.706912445259	0.321637488101393
GTCACCCCATGA	631.70895721346	0.286416874543068
CAGTCACGACAC	631.70941728766	0.429639892173472
ATCTACGATGAC	631.715326099055	0.265658145419918
AGTCACTAGTGC	631.720456708035	0.336983449807797
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CCTGCGTGACAC	631.732405785887	0.530023070970531
GTTAGTGACCAA	631.737221952262	0.255573932409747
GTCATTGATTCA	631.748566769632	0.394610301354819
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GTCATTATCGGA	631.763549637836	0.391165839237011
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GTCATAACAACA	632.215946458906	0.398052308259981
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GTCATAAAGGTA	633.906918162383	0.544798461999808
GACTTGTACCC	633.910367125316	0.326242600066355
ATGACGAGCCAT	633.91624624103	0.380038426467969
AGTCAGAGATAG	633.923663997427	0.327876807151566
TCCGCGTAGTCA	633.931204053034	0.531563170640769
CACATGGCGTCA	633.938911104717	0.552751276811481
AGACTCACTGAA	633.949478127688	0.296229867227431
CTCACGCAGTCA	633.950727276879	0.569425829535652
AAGGTATATGAC	633.953815195247	0.225503658004406
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GAATTAAGAGTC	633.980327628786	0.889499843699788
CTATGAATAATC	633.997746621738	0.514832391936636
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GCTCCCTATGAC	634.010594544708	0.347548186601608
GTCATCCCCGGA	634.019073671878	0.448802360330043
GAGTCAGGCACA	634.045997354015	0.332227741870024
AAATGACCGAAT	634.051697962825	0.388997433466045
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CGTCACCGGTAC	634.103792683501	0.479627947526552
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CGTCATTTAAGA	634.123810168974	0.64837241294838
CATTTGAATGAC	634.140634376952	0.497549197066577
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TGACACAGGGCA	634.207962035547	0.44416656658146
GTCACCTTTGGA	634.209001907441	0.516725155933907
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CGACCGCGTCAC	636.341291230024	0.393076855674173
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GACGGCGATGAC	638.487497211168	0.343834585836005
CGGAAAGATGAC	638.493932504719	0.33791760827327
ACTGCCGACTCA	638.496301694603	0.201112748065522
CGGGTATATGAC	638.497590917813	0.522284476839445
TCATAGCTAAGA	638.513882567217	0.837456790957124
AAACCAGTCAGT	638.51871123716	0.264027949378176
CGACTAGGTGAC	638.519193288682	0.59916053798053
ACGCCATATGAC	638.521269237552	0.291574618202788
AGAACTACTCAT	638.530481947031	0.250817135600494
GGGAGTTATGAC	638.546117929718	0.245356201007579
CAACACCAGTCA	638.551008196116	0.420634650712539
CCCGTTTACTCA	638.559278452915	0.407792307291882
GTCATATTGGTA	638.561506582317	0.481371838539023

CCGGCTGATTCA	638.568247016492	0.585090528107479
TACAATGCATA	638.574185932415	0.324328676564836
GTCATTACATTA	638.581654284733	0.456056078734078
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GTACAAGATGAC	638.601702634848	0.510428499183531
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CGTCATCTAATC	638.606106591484	0.243794286327774
AATCACTAGTCA	638.608248077177	0.349912057005524
GATGACCTAATA	638.608428231075	0.266096477798497
AGTGTTCATGGTG	638.609240845268	0.366165761997126
TGACTATGATCA	638.610335908415	0.500904301517316
CTCGCATAGTCA	638.61595981565	0.415590807589327
ATGACTGGGGTA	638.622158722884	0.202031932145928
CTGGACAGTGAC	638.625843455697	0.366300724265325
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GTCACCATCGGA	638.64207331193	0.472490698412921
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CCGGCTGTGACA	638.65561832169	0.519969315837604
GCGTCATGATCC	638.659556135174	0.17133830058674
CCATTGGTGACG	638.663160160261	0.513054312084715
ACGCCATGACAC	638.676886898401	0.311518829338126
CCTGTGCAGTCA	638.69298753437	0.442459303323101
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CCAAACTGGTCA	638.728263592125	0.498190513179601
CGTCATTAGGCC	638.734455534577	0.288580059101115
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TGACGAGTCTCA	638.885487047565	0.409430250130618
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GTCATTCACCGA	638.920648316316	0.301800338587876
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GAGTCAAAACAC	640.724541396975	0.593223635050382
ATTACGAATGAC	640.748476665093	0.435741848537315
AATCAAAATGAC	640.750267481243	0.420517709782601
AGTCCTGACTCG	640.753767115418	0.411770445005904
AAATTAGGTGAC	640.757935569875	0.302273097755598
TATGAGTCTCGA	640.758981715347	0.523448300823907
GAACGCGAGTCA	640.764042749131	0.286663872727822
CCCCTTTATGAC	640.765901205497	0.406988575547255
CTACCTGATGAC	640.769572467353	0.355457979495163
ACCCTACAGTCA	640.781703451553	0.266780305376612
ACATTTCCGTCA	640.788832841356	0.405110603950713

GTACGATCTGAC	640.791474058865	0.444137785136123
ATTCAAGTCATA	640.807528910709	0.338963925035958
CGTCACAGTGAC	640.822970941321	0.420378716422842
CAGTTGACACAC	640.836855059587	0.352530193795408
CGTCACATAATA	640.843571317252	0.312736819172459
GATCTCGTCACA	640.850995116054	0.402881455747657
TATGATATCATA	640.85796751075	0.45089555596856
ATCGCCGCATA	640.861859503164	0.277121779390911
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GCAGAAAATGAC	640.869118664267	0.589964131365797
ATGACCGAATAA	640.870279924004	0.641304779375999
AATGATGTGTTT	640.877349963341	0.369085699125593
AGTGTCATGGGC	640.879603730628	0.369627357431263
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CGACGTACGTCA	640.940676746683	0.607965960854064
GGACTATGTAC	640.941238288321	0.709578068908147
GTCACCATTACA	640.946119276786	0.412920208220337
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GTCACATACGGA	640.970977201917	0.516935349110437
CAGGACTTGTC	640.972604529408	0.585972824546772
CGGGAAGATGAC	640.972936734648	0.194671625791485
CGTCACCGATTA	640.977348082998	0.259374750154227
TCTGCTGATTCA	640.981628899077	0.356458748918047
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ATGACCACTTAG	642.846859000804	0.39249876196301
GTCACTGATCTA	642.857408475639	0.336094842326148
CTTACGAGTGAC	642.859431787372	0.652040882996889
GGTTACGTGGCA	642.866099166397	0.197266883700656
TGATGCATGACA	642.868113916177	0.458034386503437
ACCCTGGATGAC	642.868815534618	0.416422344288735
TAGTTGACGTCA	642.876218058036	0.493315020772401
TGACGTGCTTAA	642.881968008854	0.420731648530034
ATGAGTCCGTTG	642.9051780341	0.335512448496034
ATAGCCGACTCA	642.908731243641	0.140568062587851

AAATCGTGACCA	642.921309763008	0.422195647095067
AGACCCTAGTCA	642.922945269445	0.35320003880775
AAGGAAGATGAC	642.924033553234	0.228874756835886
CGTCGAATCATA	642.951781495379	0.341968383111111
ATTAGGTGACAC	642.959757600996	0.394941081845511
ATACCGCGTCAC	642.973241235309	0.268866297111514
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GACATTGACTGA	642.989483998862	0.248282897851418
TGACGTAGCACA	642.997284268412	0.516337281082377
CATGGCGTCACA	643.000084256106	0.345733883380863
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CCAGTATGTGAC	643.008191848531	0.684531276933693
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ACGTCACCCGCT	643.034081093583	0.314035744467925
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GCTCATGGTGAC	643.0576374768	0.329636109236455
ATGACTTCGCAC	643.068667822065	0.4478099579841
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GCTCGGAATGAC	643.075275027428	0.450418666491866
GGTGAATCAACC	643.078647818981	0.313857943410688
GACCTATGTGAC	643.081679926564	0.380856019025377
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GGCCATTGCTCA	643.091722904723	0.594905020448749
GTGTCAGTAATA	643.096811875183	0.278773358317558
AATCATGTACTG	643.100112277714	0.516050408429486
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TGTATCATACAA	643.111713308164	0.657372167533874
CTTGCGGATGAC	643.113914654549	0.613085609348755
AATATTATGACC	643.115255203821	0.433540883837487
GAGACCGGTGAC	643.117356481578	0.30902450958229
GTCATAACGGCA	643.127166841186	0.53737326016262
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GAATTATGAGTA	643.146263438752	0.319872104911113
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GAGTCAGGGAGC	643.151516462114	0.362491332257111
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ACCGAGTAGTCA	643.173032439152	0.232508860107895
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GCTAAGCAGTCA	643.208595773823	0.430662814233317
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CACCACTAGTCA	643.347364753999	0.350715478558325
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AATGAAGATGAC	644.933835615839	0.255086162651263
ATGACGCCTATC	644.952034247317	0.443008191103196
CGTCATCCCTGA	644.975643066927	0.416309682724348
CTTTGATATGAC	644.981166803786	0.26385250988562
ATATGATGTGGC	644.986424045251	0.358034250045195
AACGAGATGACG	645.002308924755	0.511807711685388
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ACTTTAATGACA	645.017800603682	0.32069796059475
GAGGCTCGCTCA	645.027500535386	0.403198778380259

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GAGTCAAGCTGC	645.066537662112	0.427524018038648
GTCATGCATCAC	645.076022601279	0.402400176737734
AGCAATTCGTCA	645.093328012692	0.273657033176783
AGCTAATGTGAC	645.095691637715	0.665420796254424
ATGCGATTAGTC	645.104945454008	0.38329074845989
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GAAAATGGTGAC	645.116976845962	0.243694930206131
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AGTCATGGGTGG	645.215657230565	0.188265664061437
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GTCACCCAAGGA	645.256877874804	0.487545567192916
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CCTCCAATGACG	647.209333762204	0.20725573756162
GATTGATTCACA	647.220729987171	0.369010807645275
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CAGTATAAGTCA	647.231526735368	0.321863033831452
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GCGTCACCAAAA	647.29241613034	0.423756191411344

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AGTCACGGCCGA	647.32722982524	0.323968115870642
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GTCATTTCCGAC	647.335800246163	0.421947659950979
GTCACCATAGGA	647.341294384548	0.326182081470571
ACTAATCTGTGA	647.345901956338	0.547382660118031
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AGCTTAATGACA	647.360582210403	0.253358090921229
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AGTCATGGGGAC	649.343606406122	0.278568884471919
GAGCATGATGAC	649.344489585917	0.334421988660583
GAGTCAGTTCGC	649.351672106262	0.389486449075901
GTCACATCCTGA	649.351848070207	0.246571909952
CACTCCTAGTCA	649.35853619359	0.390769370143973
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ATTCTATGTGAC	649.369983000859	0.559561412425116
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TCACCATGACGA	649.375694884	0.258383708848094
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TGAAGTGAATCA	649.379297931864	0.308612603309242
CTCAGGGAGTCA	649.39406436362	0.37992049937985
CTCAATAATGAC	649.423824812875	0.578695181503305
GTCACCGTGTA	649.424375313151	0.619946575406378
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GTCATTGTGCTA	649.439358287829	0.52806941593973
ACCCGTGACAAA	649.441786912736	0.371356471539673
ACTAAGATGACC	649.442208156118	0.478961006577007
CATAGTGCAGA	649.442238263872	0.657633591464741
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GTCACCCGAACA	649.498852632215	0.402450821141986
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GACTTGTACAAA	649.500972470463	0.467402165829081
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ATGTACAATGAC	649.557880333312	0.390691191338484
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ACTCATAGGGAT	649.561300353409	0.367489791599591
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GTCATGCCGATA	651.489350071038	0.388172524265909
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CCCAATGATGAC	651.493236353632	0.0694120279002642

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GTCATCGCCTAA	651.526495488785	0.372628909289945
ACTCTATATGAC	651.534313510165	0.461240326201836
GTCACATTTAAA	651.548638278378	0.148450589922722
GAGTACAATGAC	651.552356934488	0.276098395779294
CACTTAAATGAC	651.558978807405	0.550926865515811
AGTAGTAATGAC	651.568786818308	0.335031286273088
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ATCCTTACGTCA	651.585668748879	0.471657372070604
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GAGATCGACTCA	651.645072494302	0.492412835001497
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GTCATAAACTGA	651.652101534785	0.547599363050285
CTTGCTGTGAC	651.653952077529	0.502449906828015
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CGCTTTTATGAC	651.670662029033	0.400696972641973
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GTAATAGACTCA	652.227147520192	0.348191730456067
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GACAGCGGTGAC	653.621365780698	0.270256053402595

CGTGAGTCGGTC	653.622072516107	0.322001169983997
ATGCACGATGAC	653.631140025965	0.585048612808658
CTCATACATGAC	653.634026802611	0.505343047396091
ATGGCCGAGTCA	653.638369208171	0.308669378170579
GTCATTCATGAA	653.64101369274	0.457031268802133
GTCATTTGTTGA	653.644956385537	0.575906316539317
ATACGTAATAGC	653.672712593287	0.373676564821372
CGGTAGGATGAC	653.673125610483	0.404869769698459
AGTCATGGTCTG	653.677608298977	0.326908143965745
GTGACACCGAAA	653.677819622596	0.278292807841671
GCTGTGCATGAC	653.678682221211	0.560097953270241
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AACGATTACGTG	653.701441094096	0.425563844124606
GACCAGATGACA	653.702306743769	0.413651636218684
AACCGTCGTCAT	653.710569652659	0.28662426312475
CAGTGAAATGAC	653.711345493514	0.3890428297972
GTTGTTTACTCA	653.716016250264	0.492076867971084
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CACGTCACTCTA	653.728188706387	0.257403530394363
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GTACCTTACTCA	653.741471367234	0.428306344192037
GTGACAGGTCAC	653.743112679657	0.581917155467015
AACATGCGTGAC	653.745096069302	0.435642242135962
AGCGCTGTGTCA	653.746753569825	0.275111266914228
AACTCTGACGTG	653.750530073728	0.313994612811934
GACGATTACGTA	653.772113009123	0.544788108655608
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GTCATATGTAAC	653.793084025291	0.579057320276958
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GTCATGATAGCA	653.829982918407	0.708905618092164
TCTGCTTGGTCA	653.843003325356	0.576550636674966
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CGTACTCATGAC	653.856917188284	0.162301139924065
GACTCAGATCAC	653.864328419844	0.618384375360344
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TGGTGACCCAAA	655.777728770531	0.236333184512501
CAGGGTGATGAC	655.781853618637	0.359870898218786
CGTCACCGAGGC	655.803575543749	0.404642213648574
AATCAGCAGTCA	655.812718117458	0.481686954325188
CCCGCTGATTCA	655.813339730547	0.372547389063753
GTCATTAATACA	655.827436419327	0.423442218124326
AGTGTCATGGGA	655.82844777838	0.152353296511362
GAGTCAGGAGAA	655.829749202886	0.281864673725417
GCTGGTGAATCA	655.850805492197	0.561371580479942
CATCTGGCGTCA	655.860125538273	0.589465270777266
CCACAAAATGAC	655.888066583368	0.385973517675909
GCCGTCACGTCA	655.893231665267	0.311290044105346
GTCATGCAGATA	655.896157134453	0.459112823131502
GGCCTATATGAC	655.897432270417	0.459926647534104
CACTAGGTGACG	655.907813604221	0.343558114644584
ATGACGATCATG	655.911453593427	0.485000951806733
TGACCAATCTCA	655.915164237984	0.453057409461797
GTGAGTCCGCCA	655.915532074932	0.610830227888581
ACCCAAGTGACT	655.91560827758	0.186483077150202
GCCGATATGTCA	655.916412025455	0.592678965854378
AGTCACGGATGC	655.918478483984	0.288928426313569
TCATGCCAGTCA	655.931116861866	0.443709164243891
GACGAATCATAC	655.938927051433	0.307450313213846
ATGACGCCTACC	655.939541139112	0.290134181207861
GTCACCCGTCAA	655.955965349858	0.189710374879206
CACCGTGATGAC	655.978174198386	0.533425712383376
ATACGTCGTGAC	655.981380995268	0.428731503863018
CGGATCACGTCA	655.983998690379	0.565949928918638
GGTTGACACAAC	655.984760343027	0.370767635186968
CGCCTCGATGAC	655.987450053921	0.441816668759905
ACGAAGTGACCA	655.994873289211	0.423983346191197
GTCATTTATTGA	656.003701347922	0.44257633670905
ACGACAATGACG	656.00570452351	0.400266430627287
GACTGATACTCA	656.013318312681	0.516113138537363
CTCGCGCAGTCA	656.020011815625	0.681751715415859
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CGCAAGTCATAC	656.022426635894	0.447107639704203
AGGAGTGAATCA	656.027520940579	0.246115220177856
AGTCAGAGCTCA	656.029590812249	0.402172236984991
TCTGAGTCTACA	656.030728229327	0.394219947337904
ATGACAGCTTCC	656.031461402849	0.187892272258908
ATGACGCCGTCC	656.036868495992	0.490405972530877
ATTCTGCATGAC	656.037351039664	0.516989095178188
AGACTAATTCGC	656.039543102848	0.361449798399834
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AGTCGAAGTCAT	656.082758942079	0.329672913936217
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GTCACGAATCAC	656.094882539296	0.413547970229389
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ACTCATATGACC	656.457368646664	0.392753527351464
ACGAGTCAAAC	656.464184230766	0.466291468733579
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GAGCGATATGAC	656.472898456529	0.394557068855621
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GTCACAGAATTA	657.961550295933	0.321773735492769
ACTCGTGACAAA	657.965134445509	0.444057862604446
GTGACGAACACA	657.967129440535	0.514354112131186
CAGTCACGCCTC	657.970602279598	0.107060942473532
ATCTCTTCGTCA	657.973792821022	0.233968757563095
AATGGTAATGAC	657.976248546151	0.468660023570443
TGACTTCGTCAA	657.979992363753	0.438914771783032
AGAAGATGTCAT	657.987204268024	0.287502355460968
GTCACCGAATCA	658.008098522765	0.586153461689712
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AGAGTCAA AAC	658.049377033339	0.394331568310258
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ACTCTGAGTCGA	658.08155636172	0.357496939860589
GTCATCACTTCA	658.084288136657	0.276140695537957
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GTCACATTAATA	658.093783748047	0.398339805907005
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ACTACATGACAC	658.119527784715	0.315962443777838
GAGCTTGACTAA	658.121378545373	0.354289317931293
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GACGCTAGTCAC	658.137885968223	0.472750987808635
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GAGTAATCTATC	658.155837569597	0.594591223594064
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GTCACACTAATA	658.170161758906	0.383931406438438
GCAGGGTGTGAC	658.1715423246	0.443502447195312
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CATCGGGGTGAC	660.048381405179	0.569610202008266
AGATAATGTCAT	660.057264906089	0.328146437127561
GTCATGATGAAA	660.076741949647	0.50066844131746
CCAGTCAGAACA	660.083457213519	0.475373450363291
GTCATTGATCTA	660.090930609074	0.281173162212283
GTCATGATGGAC	660.09582747621	0.549335212691217
CGCGCCTATGAC	660.095962409949	0.60554054958625
CAAATCGGTGAC	660.108115403809	0.212402830031277
GACACCTGACTC	660.114575513926	0.28427670671187
ACTCAGTATGAG	660.130811553428	0.415634961316744
CTTGCTGAATCA	660.130860201069	0.473040904086662
GCGTCACATTAC	660.143538922823	0.571093525866825
ATCACATGTGAC	660.166546579451	0.492005960865165
CGGCATATGTCA	660.168567825236	0.57056098758279
CACCACGTGTGA	660.173182105444	0.445223816171677
CCTATGCATGAC	660.175363269438	0.464041805537947
ACTCATAATTTG	660.192110854868	0.353037154903511
CTTCGTGACAAA	660.200105827019	0.26267792181418
GTCATCATCCAC	660.200310843856	0.245526672097989
GTCACCACGACA	660.201292311904	0.314450956141837
ATGACCCAGTTA	660.209722471402	0.3132483979597
ATGACACGGAGC	660.211715876325	0.300496789438297
ACCACATGTGAC	660.243655035311	0.365059135432082
AAATTCACTCAT	660.246656279295	0.349151048307699
AAGATTATGACC	660.260486847792	0.247389407731728
GTAGAGATGACA	660.266552951226	0.178429185869673
TCCGTCCAGTCA	660.297740001487	0.482636706882502
ATTCTGTGTCA	660.299282775019	0.515772982896807
CTTTAATGACAA	660.303187196906	0.428002585023925
AGGTCTGATGAC	660.304028003934	0.433191700508935
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CACCATCGATGA	660.311150271492	0.645682702628482
GTCATGTATCGA	660.31514804439	0.356084565220776
ACGTGTGGTGAC	660.318364064418	0.52690733713776
GTCACTGAAGA	660.320728058303	0.54349970848291
ATACTGTACCG	660.324456110842	0.368318020437589
CTTTATTGACTC	660.327674391457	0.325093039516186
GTCAGACATCAC	660.330137454415	0.419215531786451
GAGTTAAATGAC	660.336423023931	0.376863381208239
TCTCATGACCCA	660.336527761281	0.208034254436944
AGTGGTCATTTT	660.337484127212	0.506395743930185
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TGACGTTGCTAA	660.353104317032	0.377458559852796
CGTCATCTCTAA	660.35404768958	0.309642245532988
ATGACGGGATCA	660.357066847827	0.371304649945141
AGTGACTTGGTC	660.365980609883	0.442791856076401
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CATTTCTCAGA	660.369695864473	0.375971874200269

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GCGGCGTGACAC	660.398342725631	0.484936754704495
ATGACGCGCGTC	660.403653321589	0.412120726300836
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GCGTCACTTCAA	660.569161992324	0.325770059916331
GTTTTACAGTCA	660.574874574417	0.464087169032853
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TCGATGGCGTCA	660.766926782401	0.418375307906783
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CTCAGCGAGTCA	662.140567747343	0.471579901343755
ATCTGAGATGAC	662.142094015181	0.429446552219517
GTCCGTGCGTCA	662.146182701154	0.349859777601335
GGCTCAGATGAC	662.156863857177	0.0241533160216038
GTCATTAECTAA	662.163434045392	0.353952293350184
TATCATCCGTCA	662.169496197174	0.282225900831449
GAGTCAAAACGC	662.172778204901	0.263893593741362
AGAAGTGAGTCT	662.185579228336	0.239783756831247
TGACTCCGTTAA	662.194416752981	0.509395907089294
GGCACATATGAC	662.204040737666	0.378563424313893
GTGACATGGTCA	662.208390366803	0.451053011699656
CAGGCTCTGTCA	662.230245881307	0.328866542466207
ACTCATTGGAAT	662.237836076773	0.389464302850422
AAACGGTGACAT	662.253991394172	0.185407080768725
GCTCCCAGTGAC	662.257912975047	0.582772732753171
CTGGTCCATGAC	662.258851939806	0.444228449361847
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CACTTGACGTCA	662.277201786085	0.36630435606269
CCTATAAGTGAC	662.279315819684	0.837141081899578
CTAATTTGTCA	662.285977520971	0.422164668956217
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CCCTGTTATGAC	662.287430391859	0.481560016861174
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CAGATAAATGAC	662.361064992796	0.46010961360415
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GAGTAGTGACAC	662.401520160374	0.37397270909071
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ATCGTAGTGTC	662.414446295806	0.411451415359056
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AGCCGCCAGTCA	664.149559280841	0.529765213109623
ATGACGACGCAC	664.149889944852	0.284889182661657
ATGACGCCTCGC	664.155324916018	0.361891880562368
TATTACCGATGA	664.159975436625	0.686262682515596
GCTAGGTGTGAC	664.166750620441	0.559616990716398
ACCAGATTAGTC	664.169953198492	0.412205236085206
AAGAGATTAGTC	664.177716911528	0.214139213716537
CCAAACATGTCA	664.178911132454	0.448754171536496
GAACTCCATGAC	664.186080143258	0.423081909122745
ATGAGCAACCGA	664.192238545032	0.279050429476462
GACTCACTCCCA	664.193536304863	0.381058484848945
AGCGTCATGCAA	664.20095566907	0.713018858929331
CGTCACCCGTAA	664.204431059762	0.43895955633187
AAAATTGACACA	664.206401888718	0.38525412256274
GCTGCTGATGAC	664.211090254753	0.546855380605438
CTTGCGGTGAC	664.216073727065	0.700080659948366
ATGTGTCAAGCC	664.234331432967	0.280632192833333
GAGCCATATGAC	664.243764369668	0.456377776838125
CAATTCTAGTCA	664.260566982696	0.260518501625065
AGACCGAGTCAG	664.271576282448	0.260152879059928
CGAGACGCGTCA	664.273791397708	0.555008608575006
ATGACGTTAAAT	664.28034620653	0.328527398491879
GATGTGTGTGAC	664.282474402282	0.270289570336533
ACGCATGATGAC	664.286231233392	0.510774541458484
CCGATGACGGCA	664.290496007416	0.486844659544935
CCAGACGTGTCA	664.295949872992	0.537140325700116
AAAATTACGCAA	664.297937707431	0.47919049622832
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AGCCAACGTCAT	664.336093174462	0.14164828590502
GTCTACCAGTCA	664.341755429518	0.522328819271853
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ACTCATCGCTAG	664.365882462866	0.296865197491096
ATAAGTGGTCAT	664.379008703374	0.321181021815722
CGTACAGTGTC	664.380137396635	0.738012639461744
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GTCATTAGGTGA	664.43033882532	0.233067405536517
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ATGAATAATATC	664.441787461576	0.270068099527866

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GCAGCCTAGTCA	664.477073574285	0.515793964025119
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CACACGCATGAC	666.155382452534	0.542386310907276
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CTTAGTAGTGAC	666.182490780601	0.739297736729881
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GACCATGGTGAC	666.232860577325	0.470782060594374
TGACATGTTCAA	666.237150112968	0.447923923693871
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GTCATTCAGGAA	666.250456233495	0.278258646632274
CACTGACGTGAC	666.252476122722	0.363384151816727
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GGTCAAAATGAC	666.347483039173	0.534943017954309
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CAATCGTGAGTC	666.372409786265	0.377719783029892
TCCTATGAGACA	666.374079487581	0.446899482742813
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CACGTCACTATC	668.345894299185	0.256318743941714
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GGATCGAATGAC	670.484099882411	0.474994410836028
AACGTAAATGAC	670.486910430335	0.429981710674106
GTCATCATACGA	670.502287017669	0.272166366058992
ACTAATGTGACA	670.5054134812	0.422288725426661
ATGTAATAATGAC	670.507381579393	0.470614550986354
CATGCAGACTCA	670.518852685559	0.42026534089502
TCCAATGGGTCA	670.521928798393	0.333206020544674
ACGTTGATTCAT	670.534925515809	0.41417223480669
AGTCACTTGGCA	670.547099184002	0.576620707707872
GTGAGTACTATA	670.558524542625	0.42580301811494
CAGGACTAGTCA	670.570208978292	0.241145251354379
GTCACCCTGTCA	670.572449747374	0.371879656778061
ATGACAATGATA	670.576461855883	0.314399614246754
GTCACATATACA	670.57964173028	0.610484164156652
CAAGCAATGACG	670.580696140556	0.419907284466341
TGATTCGAATCA	670.582495947098	0.743580242544948
CGTCATTTGGAG	670.592522007458	0.271424219758296
ACGTGACATGAC	670.59832251512	0.310483052849042
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AAGTTGAATGAC	670.60848708906	0.377386728199108
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ACCGAGTGACGT	670.611782436976	0.308525657919702
ATTACGTGACAA	670.627971875239	0.425356085143489
ACTCTTTATGAC	670.629850437608	0.410174107116633
CTTATGGCGTCA	670.633261936675	0.447659978650664
ATGTTGAGTAAC	670.638774407777	0.344533872119727
GTGTCACGTCAA	670.639468356867	0.297282421608125
ACGTCACTTTTA	670.643929732944	0.528150890373196
GACTAGGGTGAC	670.646388971815	0.463381805681812
TGACGCGACAAA	670.647114746823	0.274949468036147
GTCACACGAAAA	670.65025257274	0.192624725443317
AGTCAGTAATCA	670.653413171032	0.375061448273248
GTCATGTCGCCA	670.661610250223	0.403585099670752
ATGACGTTAGTA	670.671593939197	0.383339715194617
ATGAGCCAACCA	670.671937725437	0.645577625592516
GTCACACAGGAC	670.683703979577	0.397678264297525
ATGACGACTATC	670.685459657432	0.337280580741052
ATGACTAGCGAC	670.696111976533	0.330003357865624
CGGGCATGACAC	670.699803371972	0.494319327257907
ATGACCACGATA	670.703199552344	0.245772524116855
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ATGACGGTACGA	670.708330554703	0.335038906637818
ATGACACGGACG	670.70906464427	0.412062188166495
CCAAGTCGTGAC	670.712010601072	0.553119441142488
TCATTGTTGTCA	670.720600207306	0.501932908885456
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GAGTCAAAGGAC	670.721900781378	0.249545456268947
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AGTCAGAATTCG	670.7460974728	0.232243790717432
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CACTTTAATGAC	670.753283885073	0.416310292491258
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AGTCAGACAATC	670.75843724282	0.321220441014435

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GATGCAGAGTCA	670.768774991609	0.251204901399557
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GAACACCAGTCA	672.4954019011	0.442393047682761
GCTCGCGATGAC	672.495881939524	0.746107186399832
GTCGATTGCTCA	672.51187775744	0.649776281548556
AATAACGCGTCA	672.515875187755	0.257157217787467
GTCATGTATTAA	672.519851634663	0.36503293819651
CTGTCTGATTCA	672.542087773314	0.435836530614513
ACGTCACCAACC	672.556499252667	0.305354614561977
GGGCACACGTCA	672.556929055678	0.366321952614922
GGATATAAGTCA	672.564915038678	0.269269326102498
ATGACGTGAGCG	672.566047187458	0.288278640297004
CTCCAGGTGACA	672.567591410757	0.391845045815124
GTCATGTCTTCA	672.573545040785	0.643119016360819
AAGGAGGATGAC	672.592976013952	0.19729075700145
GCGCGTAATGAC	672.601792524022	0.396819145623286
ACGAGTCAAAGG	672.618539073587	0.278070623846294
CAAGCACGTGAC	672.62628453452	0.591365554397649
GGGCACGATGAC	672.627060701519	0.414338701344728
GCAACTGGTGAC	672.633176464805	0.397042063276624
CCTTCTTATGAC	672.636341144242	0.251719361794903
ACACAGAGTGAC	672.637089139375	0.343109951974766
GACTAATTTGAC	672.644625256684	0.420396723358363
CAGTCAGATGCG	672.660337894363	0.304592896813422
TCCGTTGAATCA	672.662802960241	0.439460017588008
AACTATAAGTCA	672.668140536157	0.472156097073371
TAAACTGAGTAA	672.669324205261	0.498813896369336
CCACTTAATGAC	672.674189688566	0.408130220852338
GTGACGTGCTAA	672.685268402824	0.31538057054116
CGATGCCTCATA	672.696347488181	0.425363352849611
AAATTAGGTCAT	672.713957633712	0.239124582482448
GTCATAAGAAAA	672.732507924707	0.322192497085721
GGGTCACGTGAC	672.743336906339	0.545426598014991
GTCATCTAAAC	672.749617907579	0.45171022657256
ATGAATCAATGG	672.784711434042	0.31226875728114
AGTCACGACTAT	672.796310092111	0.343781731375556
AGACCAGTCAGC	672.803697077052	0.0831951651594222
ACGTGACAAGTC	672.807719440646	0.289181905083125
ATAAATATGACC	672.81003984157	0.505562877302905
TGACACAAGTCA	672.817069941334	0.377505732137517
GCCAGTGACCAA	672.820600813418	0.308728525293091
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CTTTCGAATGAC	672.834779691216	0.366299719668671
ATCGCCTGACTC	672.839694351653	0.421504522099797
ACGACTCAGAAG	672.845757890745	0.27843502731184
CTCACATATGAC	672.853156479334	0.356188556472708
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CATGACGTTGCA	672.859802450894	0.25584648826251
GTAAGACATGAC	672.882442831691	0.304889112386591
ATAGACTGACTA	672.886931800131	0.570928755882444
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ATCCCGACTCAT	672.906423844767	0.193820249854945

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CGTTGCTGTGAC	673.227544284212	0.407531540620311
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AAGAACGTGTCA	673.279878962277	0.276721400474764
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GTCACCTTATAA	673.619038119779	0.51175402349533
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ACTCATTCTTAG	673.833178375407	0.17434718810409
GCGATTGATGAC	673.837685430577	0.383297553308978
CGTCATCAGACG	673.838995381482	0.664177862495389
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ACGTAGACTCAG	674.687282440202	0.382622504195198
GATTTTGTGTCA	674.710127139628	0.479053226366117
AAATATTTGTCA	674.717858367316	0.607088354310108
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GAGTCAAATGGC	674.7464023133	0.53587232346728
AAAATAATGACA	674.762625400575	0.21599469764743
CGAGTCAAAGTC	674.765747110059	0.482633909036101
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TCGGTCATCGAA	674.800894153043	0.263010665848336
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ATGACAATGTAA	676.712133170628	0.38176910396805
AGTCACGGCATA	676.713429769151	0.402385673191518
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ATGCTATGACCC	676.76621462141	0.241040621659467
ATGACGAGGAAG	676.768909047456	0.179138717821029
GTCACCCGACGA	676.771540938092	0.345969858466536
CAGTTTTGACTC	676.784921233618	0.33339701446465
GCGTCATGGTCA	676.785363825059	0.451210816905358
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ATCCAAGTCAAC	676.880424823439	0.261930596941665
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GTCACGCATTTA	676.913354123634	0.417568151138407
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GTCACCTACAGA	676.924065581482	0.65917177166416
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ACGTCACCATCC	676.948663190279	0.223208491000429
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CTATGGCTAATA	678.800253183625	0.211130198786496
CTTCAGAGTGAC	678.813445995628	0.759086567797737
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GACTTATGATGA	678.814522871458	0.63522959992251
CGCGAGCAGTCA	678.818063981919	0.484935174306189
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CATGCTATGTCA	678.836683514613	0.421595941772971
GACGTGTGACCC	678.838913587944	0.452435969164393
GTAAGATGACCA	678.845528610739	0.428480649867652
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AAGTCACTCTTG	678.853008247073	0.177345051674291
GACTGCCATGAC	678.858195000797	0.404137947634189
GACGAGTGTGAC	678.873727856288	0.174845877190805
GTCATCCACTAA	678.874259319487	0.337043029551148
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AGTTCCTGACTC	678.890051654062	0.275072364700702
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CACACTACGTCA	678.967642917385	0.525352398643676
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GTCACGTGCGAC	680.945385563543	0.358657995901668
AAAATGTCATCT	680.970374865057	0.231785575516734
TGACAAACTTAA	680.972568669532	0.421335335309087
ATAGCGAATGAC	680.982500389031	0.379392883415083
CCCTAAGTGTCA	680.984583079243	0.419435598725326
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ATGACGAGACGA	680.987701087325	0.280322776538072
AGACCTGACTGA	681.005155509168	0.377939126990397
ATTACTATTACG	681.015163454709	0.389023323608222
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GCAGTCATGGTA	681.018629727188	0.432035926115794
GTCACGTATAAA	681.020504021174	0.588022117931349
CTAGCAGTCAGA	681.027521545756	0.277173398616064
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CACTTTGACTGA	681.038645710789	0.48399820965667
GTCCAGGTCATA	681.044176190221	0.35920663881485
ACTGACGTCAAT	681.051198661209	0.505643777456531
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GTCACCAGTATA	681.063480776722	0.352202763818109
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GCGTATATGTCA	681.115036256131	0.283506608627302
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GTCACACTGTAA	681.150387211781	0.426783487015341
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GTCATGATCATA	683.010312130386	0.404398402423056
GAGTTGACTGAA	683.014602386084	0.478756824352936
GTCATCAAGTGA	683.021323689631	0.376147363062095
CTTCATGGTGAC	683.02504156988	0.494155245846126
CTCGCGGTGAC	683.034383631827	0.489001383382496
CGTCATTGGTCC	683.035890868699	0.238270468854155
GACGTCACCAAA	683.071160893761	0.389858984703843
TGGCTCATCAAA	683.074234879054	0.357604402310185
ATGACCACTTGC	683.077737617752	0.432250657663149
GTCAGAGCCTAA	683.084846873008	0.405194410805197
CCGCCCGATGAC	683.085992821498	0.289543210416259
GTTACTAAGTCA	683.086419528805	0.323042945720429
AGTCATGGTACG	683.096527987739	0.475364317507535
CACACCAATGAC	683.106899773709	0.332341043663039
AACATAGTCAGA	683.114557473904	0.309799285815685
ACTCATAGTTCT	683.122422141826	0.258320669378008
GTCATCAAGATA	683.123503538426	0.45525612570888
GCATCCAATGAC	683.125873846469	0.469001096374732
GTAACAGATGAC	683.127847044918	0.436296796718192
CTAGAAATGACA	683.145038390817	0.264971039100778
AGAGTCAAACCG	683.16266323714	0.402620048366247
CGAATGGGTGAC	683.177373505541	0.501286786692107
CTCGTCATGTCA	683.180722893097	0.30989502024475
AGGGTCATTTAT	683.182885192058	0.3935137904286
CAGCGCACGTCA	683.183551406249	0.42164935989216
TAACGTACGTCA	683.185255106386	0.571408850423078
CAACCGTGACAA	683.202968349266	0.30734203152796
AAAGTCCGTGAC	683.204125380069	0.293731228688593
CGACCGATGACC	683.208380666023	0.406206211743447
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CTTAGAGAGTCA	683.214084003425	0.467169961865065
GCCAACGGTGAC	683.226941650154	0.361206323150821
TGACGTACCGAA	683.226987314785	0.405287504728708
ACACCGTGTGAC	683.241992104862	0.35636718312863
ATAGTGTGACAG	683.243114966543	0.20261212524025
ATGCTAGTCACG	683.246524183937	0.29381157068103
AGGGCAGAGTCA	683.256592175694	0.287488501628652
GCAGCGTACTA	683.258231855224	0.328512576751102
ATTACTAAATGG	683.2690904646	0.31735390796211
ACCTAAATGACG	683.269500364026	0.322403247873546
AATGTCATTACG	683.27032946095	0.575596125949382
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CGGAACCTCGTCA	683.288259677384	0.556021107797314

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CAAGTACTGTCA	683.296279334893	0.348939107483429
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TCATCATACGGA	683.30047550572	0.482446027332519
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GCAAATCCGTCA	683.496948941151	0.765918617256741
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GTC AATAGTGAC	683.765541011324	0.421655898927873
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GACATCCGATGA	683.872657095975	0.382182685555745
GGACGCTATGAC	683.880961682805	0.278638482991215
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GACGATTGGTCA	684.238051483543	0.525101842455195
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ATAAATGGTGAC	685.049885809808	0.387724043416729
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GCTGCTTATGAC	685.089052218992	0.266040860495355
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CAATGATGTGAC	685.113420865189	0.278765793613176
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TGACGCGATAAA	685.220783726453	0.375966695910402
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TATGACAGTGGA	685.257486738585	0.328606122207125
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CAGTCTTGCTCA	685.272476044643	0.283298111091767
GTCACAAAACGA	685.273464251888	0.363821188336683
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CAGCTATTAGTC	687.03352381074	0.492892765299432
ATACGACGATGA	687.053478461864	0.35684381526762
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GTGCCACAGTCA	687.059008399082	0.18557359335956
TACTGGTGACAA	687.070289915823	0.47636500800175
AGTCACGACTCC	687.070696273599	0.280206918327323
ATACGCACGTCA	687.076342376533	0.376538783252208
CAGTCAGATTAG	687.103050196647	0.301500232016589
GTCATTGTGTTA	687.107188418006	0.296559601329211
AGGAATGATGAC	687.117617057277	0.218589720974813
ATGGCTGACTGC	687.121102963644	0.620260969554089
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GACTAATCTCGA	687.139942166558	0.440553980968453
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CATCGTCATGAG	687.154202111275	0.445752438508734
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TCACTTTACTCA	687.16037862174	0.345626223545806
ATTACTTGTACAC	687.161336431043	0.340072979227567
CAATTGTGACCA	687.162124138747	0.307875834251793
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CAAAGTGGTCAC	687.167929059455	0.521125964987687
CTGGCCCAGTCA	687.172271472155	0.477142029293385
AGTGACCAAGTC	687.181775581635	0.293848267379189
TACATGGTGTCA	687.182222967024	0.507513126588441
ATGACCACGAAT	687.184122525891	0.532330125340118
ATAGTCGTGACA	687.18901582332	0.471522210263167
CGTTTTGACGCA	687.190561497173	0.432415929537849
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GGTCTTCTGACA	687.213845628852	0.5551443749826
CAGTCACGAGCG	687.218290257249	0.277919823370226
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CATCGCTGTGAC	687.236420486695	0.370055486620522
ATGACGCGCCCA	687.238061038035	0.24544970279278
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TAACGACTCAGA	687.239728935657	0.294980545892452
GAACGCCATGAC	687.240406195727	0.511446486757677

GGCATCAATGAC	687.249212589681	0.438475282880929
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GTCATTGCCCGA	687.278097089894	0.237588755436918
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AGCGTCATGGCA	687.907092098677	0.258243110236628

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GATGATTACGCA	688.406032201355	0.469922128024027
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TGTCACAGGTAA	688.942017394222	0.175330262729463
AGATAAATGACG	688.949160637268	0.124821550195983
AGACCCTGTCAT	688.955978104659	0.242201574252283
CCTAAATGTGAC	688.958918895337	0.358855860675519
ACCCCTGACTCG	688.959337566795	0.27847932355509
TGACTATGGAAA	688.960741438111	0.399557869953695
CTTTTGTATGAC	688.961316928921	0.441712807832617
GAGCTATAGTCA	688.968054738028	0.315259139613096
GATACAGAGTCA	688.972759393167	0.379023318019119
GAGCTTGTGTC	688.975086851651	0.439816894007143
ACCGACGTCATC	688.978635651383	0.285166858589993
GGAAATGGATGAC	688.979208472139	0.358789077847911
GTGACTACCCCA	688.985902279806	0.257846334505346
CGATTGACTGAA	689.000026509986	0.43767657504806
GACTATAGTGAC	689.004766205906	0.371104460098118
TATTCTGTGACA	689.007609428041	0.366290183537641
ACGTCTGACAGA	689.012046613214	0.421373463872464
CAAGCGGTGAC	689.022545452002	0.21615359363838
AGTCAGAGGTTT	689.022852795312	0.288348722765112
ACCTGTTGAGTC	689.034788821031	0.378041223721221
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GTCACATTTAGA	689.056490415286	0.164293664348031
CAGAAAGTGTC	689.066480538721	0.426529012826078
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CTATCAAATGAC	689.068033711279	0.170592094318091
CAGGGTAATGAC	689.072969355446	0.337158387663233
GATTTGTAGTCA	689.07405777182	0.33051090842275
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AAGCAAGATGAC	689.126651010539	0.185856550711227
GCGACGAATGAC	689.131538484492	0.269487381312147
TGACTGCTGACA	689.135899616374	0.343150351341037

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ATCACCGGTGAC	690.838588684916	0.385917248046759
ATAACGCAGTCA	690.850823257518	0.710549096326079
GGCCAGGATGAC	690.868745145689	0.290847399426786
GCGTCACTAATA	690.875646391357	0.366242414199401
CGGTCCGGTGAC	690.875877433333	0.476827422494325
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TCAGCCAAGTCA	690.890966646491	0.46487339982194
ATTGGATGTGAC	690.89265552147	0.26010527964707
ATGACCACGACC	690.902238034293	0.293280838849152
GGTCATAGCTGA	690.919339113672	0.398043708330085
ATGGCAGAGTCA	690.921638322444	0.295935578705359
GAGAGAGATGAC	690.954599418079	0.237222058537676
GTTCAGCAGTCA	690.97783140781	0.417834444690538
GCTAATTAATA	690.983095979171	0.55063901315328
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CAGAGACTCATA	690.987507300436	0.351149493527989
AATATCGTCACG	690.991905876349	0.216559812593525
GTCACAAAGTTA	690.99775787563	0.380231168802585
CGTCATCGGTAC	691.003229928911	0.15092025503771
CATGATTACGCA	691.006186845325	0.345036414561334
GTCATCAGAGGA	691.008669181317	0.330379379160667
CCAATAGCGTCA	691.017484344809	0.48237440232708
ATTAGCGGTGAC	691.027641071415	0.38421680718333
ATTGACGATGAC	691.028144204226	0.377983215242667
CGAATGACCACG	691.028422400379	0.345247684748197
GAAATTAATGAC	691.034101909186	0.498698047594373
CGTCATTGTAAC	691.034458952896	0.461041279711468
CTGAAGTGAGTC	691.036437688376	0.370252678195016
AGGTCGTGACAC	691.03720683427	0.390291652486735
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ACAATGGGTGAC	691.040679422729	0.147173986966122
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CATTTAGTAATC	691.066887771254	0.248844576042394
AAGGGCGATGAC	691.07048936708	0.36296812183354
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GGGAACAATGAC	691.079078878146	0.364725885343548
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GTGACTAGCCAA	691.093757097386	0.350181477537281
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CGAAGCTCTGAC	691.124060510454	0.512646016142159
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GTCATTGGGCAC	691.150669244354	0.330794827517687
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GAGTCGACGTCA	691.231018324771	0.26494596167963
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GAGTAATCGGAC	692.760661850781	0.318813308428862
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GTCGAATCATCA	692.766359829163	0.269111459229942
AGTCATGGGAGG	692.773081714424	0.298179113225986
AAAGAGATGACG	692.777930329689	0.321823158971388
AGTCCCAATGAC	692.779819485182	0.454413745331798
TCTGTAGCGTCA	692.794018522742	0.420829986331767
AATGAGCCAGAC	692.802149117463	0.424172051475102
GGCCCTTATGAC	692.803126211337	0.478863948872943
TACTACGTATGA	692.810694486525	0.457024931029252
GCCACTAATGAC	692.820374198021	0.381318443175129
ATCGTAATGACA	692.823655348658	0.427162673839748
ATTACGCAACTG	692.824111711212	0.480562206352962
GTCATTTTGGTA	692.827130613113	0.42733725151965
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TGACGGATATAA	692.841783796836	0.383094608263679
GACGCATGCGTC	692.847743977032	0.58738182707989
AGTCACGCCACC	692.849945697836	0.293127238955663
ACTGGCAGTGAC	692.850303402866	0.423112419476609
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TATCGTGACAGA	692.865501572006	0.405828768658539
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GCGTCACCACGA	692.876059797433	0.445874724094697
CCTAGGCATGAC	692.885457467161	0.52161493047106
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AAAACACGTAAC	692.889481290914	0.263317608635286
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GATGTGGCTCAC	692.918284319245	0.578075289248961
ATACTCGGTGAC	692.922328010709	0.330606743065986
ATCCCCTGACTC	692.924674852487	0.161353215315876
GAGCATGAATCA	692.934872728195	0.315049658934473
GAGTTGGATGAC	692.943858919098	0.390184617320226
ATGAGTACCCCG	692.944151493547	0.342077663803587
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AAATCTGACGTG	692.949694004046	0.307270163102127
CGTCATTACGGC	692.951051200205	0.395121768260392
GACCCCGGTGAC	692.958130072095	0.480242359167675
GGTCCTCAGTCA	692.976634005852	0.321686395561444
GTCATTGGCAAA	692.982106426296	0.354475856767253
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TCACGTGCATGA	693.022989504658	0.496693568027913
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GTCACAATGATA	693.034983120793	0.258067059631142
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CTGCTAAGATGA	693.067019131666	0.428937354679041
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GCGCGTCACTGA	693.073639805196	0.448638620357973
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AAAAATTTGTCA	693.199843359698	0.38880313770407
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GCGTCATGTCAC	693.230311325684	0.262677483750868
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GTCATATCACGA	693.408239556182	0.4241585054866
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ACTCATATTTAA	693.485938465184	0.251961760156161
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GTA CTCTAGTCA	693.586387995685	0.353280367472722
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ATAGTCAGCCAT	693.596597072234	0.493509383971771
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GTC ACTATATGA	693.614782079616	0.364976202765233
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ATGACGTTGAAC	694.564552963058	0.367723475629673
GTAGACAATGAC	694.570911139581	0.271748317309062
GGTGACCTATTA	694.572447188374	0.443804346595935
GGATGGAATGAC	694.600884272479	0.233715845234581
ATTAGGGAGTCA	694.601091482334	0.338461211466791
CGTCATCCCATC	694.620086333215	0.24639518342412
ACTCATCGGGAT	694.62411026732	0.548159256639916
TGACTTAGGACA	694.633379603815	0.469992033502841
CTCGTGAATGAC	694.637334478533	0.33176671678508
CATCCGACTCAC	694.639722417144	0.350023125880311
AGTGTACGAAG	694.646802965283	0.354972424862578
AGTCACTAGAAG	694.647991088295	0.388726447171826
AGGTTGAATCAC	694.649119561964	0.243049168125245
TCCTAATGACAA	694.649428767611	0.448440166722223
ATTGATCGTGGA	694.650815915249	0.405721146518754
ATGACATCGTCG	694.652581960649	0.254227542793891
ACGTCACCTACG	694.656445551602	0.389115137756236
CGATGTACGTCA	694.664134653355	0.430757760120502
GTTTCGATGACA	694.678148241682	0.498529345370865
ATGACGCCTGAA	694.678989696762	0.325423153084382
ATGACAGCGAAT	694.680843338031	0.37227555780359
TCCCCTGTGACA	694.69490596477	0.105568133914739
TAATAGTAGTCA	694.695607603167	0.33789351969251
CTCTCGGTGACA	694.696531795142	0.636735360132505
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TTGACTACTAAA	694.701077318004	0.565942799282831
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CCAATAGATGAC	694.710343485133	0.506765752040637
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GATTCTACGTCA	694.737766704918	0.210966594051137
GATGACAAGGTA	694.739249059968	0.289174859021325
ATTTGCTGACTG	694.74566069641	0.258470857493424
AGGCCGCTCAC	694.746868109049	0.354990507556284
CAATTAGACTCA	694.769922355169	0.135651769380711

GATATATGTGAC	694.776469093782	0.0790972531912407
CTGACTCGGCAA	694.778238567153	0.370259799500045
TCAGCAGTGACA	694.778746052229	0.422573284360318
CTTAGTGAGCCA	694.782027208801	0.454814796692474
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AGACGTGATGAC	694.784545684928	0.294337053960638
GTCACGATATTA	694.799208143132	0.370564482523959
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CGAATCATGACG	694.801398670404	0.478816057663235
GAGTCAATACAC	694.811458397894	0.382856065093615
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CCCGCAATGACG	694.864917704968	0.534579021301264
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ACTCATTCTGTG	695.363122115667	0.47290001483184
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AGTCAAATGACA	696.470330618553	0.252496673359759
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ATGACACCCCTA	696.487609767509	0.288829687837937
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GTCATATCCCA	696.512068410582	0.314267639566314
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AGTGTCTGTGAC	696.540333313342	0.424186628658483
ATGATAGGTGAC	696.555924693961	0.452356796435731
GTCACCTATTCA	696.567364042457	0.335074645898385
AGTCAGATCCCG	696.570393313682	0.394793560062539
TCATGGCAGTCA	696.573036758611	0.42438362179616
ATTCTCGGTCA	696.575057873212	0.16451891969636
CTGTGACCAGGC	696.576231837128	0.551094999830484
CGACTTCGTCAG	696.58045271693	0.35227370902135
CAATATTGTAC	696.590676262469	0.181882509778453
CGAACTCTGTCA	696.593894132694	0.389039972198357
GACACGTGACGC	696.59714631998	0.365677119979195
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AGACTCACTAAA	696.603841839659	0.26726778462844
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GTCATTACAAA	696.606471522882	0.464661020107151
TCGCGTGACAAA	696.614652763076	0.214763393227459
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GACTGCGGTCA	696.638340892951	0.492193744691266
ACTCATCGTGAA	696.639052099242	0.415883169435942
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ACCCCATATGAC	696.657802455528	0.403468219198991
AAATTCGTCAAT	696.662691598964	0.256234755904418
ACTCATACAAGG	696.669918156821	0.216979406166759
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CACGGTTGAGTC	696.676815659479	0.33767088571289
AACTCTGACGAA	696.679358749685	0.416023710570397
ATCAAAGCGTCA	696.684979580274	0.389893838231915

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CACCATCATGAC	696.714251039121	0.209530729046195
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GTCATCAGGCAA	698.5053561767	0.41177897249799
AAGACTGATCTG	698.509575992481	0.371036422589057
CACGTCACGAAA	698.530203393824	0.497208016557869
CTGGCATAGTCA	698.544323804002	0.276567688501182
ATGTTGTACTCA	698.550343367173	0.329677078144115
TCTGTAATGACA	698.551431763926	0.292003320838222
ATGACGGGCTTC	698.553800123351	0.519923443440528
GAGCCTGTCATA	698.556383607197	0.331316652659684
GCCAACATGACA	698.561657127951	0.402996717721938
CTCTTGTACTCA	698.565293009701	0.344769041100755
GTCACACGTCCA	698.574389405563	0.373880626774482
ACATATCGTCAC	698.587081565314	0.368501467375931
GTCACCGTAGCA	698.587644348801	0.424170039001179
ATGATGGTGTCA	698.598242631397	0.343507174453341
GACAACGCGTCA	698.602051862161	0.355895785794485
CCGTCTGATGAC	698.609986596755	0.46223372766814
ATGCTGTACCCG	698.612529282571	0.316468765088747
GTGACTACCCAC	698.614220544045	0.179144167723731
ATCCCTTACTCA	698.61841503691	0.221641245161952
TAGTCAGCCGAA	698.61865834406	0.442586580475461
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ATTACTGACCAA	698.629621984122	0.214989051237146
CAGCTAGACTCA	698.630509827618	0.480404608108525
GATAGTAATGAC	698.637698589885	0.402389624661918
GTCATCCGACCA	698.642979147854	0.165596845366773
TGACGTACAAAA	698.663332590514	0.542555984860262
GGATATTGTAC	698.668960215504	0.346317189064108
CTTGATGTGTCA	698.669618252383	0.63242928188441
GATATGTCAGAA	698.670188301326	0.265044622026191

ACTCTAGATGAC	698.673470282901	0.570166063526483
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TCAGTAATACGA	698.709222239209	0.283280964913691
TCACGGTAGTCA	698.710350959472	0.470267538693514
CGTGTCACTGAG	698.716069471659	0.536046438304545
CACCTCAATGAC	698.716299226003	0.367760960823654
CGATTATGACCC	698.716903263911	0.467161149666675
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ACTCATCGTAAA	698.725875025129	0.325695889278728
GACAGTGACGTC	698.728373743092	0.382977006307722
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ATGCTGTCACTG	699.27774378165	0.462548436945571
GTCACAATTACA	699.279565838777	0.368182963735666
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GAGGTAAGTCAC	699.289764886856	0.368083138033255
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ACTCATACGATG	699.328084947424	0.211747115333364
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GAGTCAAAGAGA	699.648765402921	0.308602287165207
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GTCACCAACAAA	699.690257407846	0.375464196588892
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CAGTATCGTGAC	700.378910545625	0.430631230607323
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GTCACGATTATA	700.382596926848	0.427668287693168
ACTCATCAGCGG	700.383980230387	0.360252681243682
CACGTAATAAAG	700.394786856715	0.381189031925092
CCCAAAGTGTC	700.399721515368	0.66791397771362
ACGTGTGTCAAC	700.39985343012	0.225837906257918
ATGACGCCGCGC	700.401114893322	0.358403193666973
GCTGCATATGAC	700.402146315522	0.363204248371204
GTCATCCCCGAC	700.408871761405	0.312227930738075
CGTCACGTCGAG	700.432405313367	0.356933137706731
TCCTCTACGTCA	700.433431406965	0.243189334147593
GTCATTAAGA	700.436624508222	0.387856356213104
ATGCCATGTCAC	700.44853155978	0.205579772185562
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AGAAAATTAGTC	700.452099764622	0.246300897335265
CCTAAATCGTCA	700.456486376801	0.443743698595594
TAAGGGTCAGAA	700.457739152241	0.257679187982539
CTGTTTGTGTC	700.46057526102	0.29291002682836
GCTCGTGAATCA	700.461998066711	0.345227105443524
CAGACTCTGTCA	700.462611570099	0.290140535225186
CAAGTGTTAGTC	700.469767311151	0.764341189603697
GCATGACGTTAC	700.481689065005	0.18557338322166
ATGACAGCGTTA	700.483038197849	0.25623458735588
GACTGGTACTC	700.485053404414	0.496387815373695
GTCACTGGGCCA	700.48570581473	0.45997093523071
GCAACATATGAC	700.509331376422	0.518906297487664
GTCACCTCGTAA	700.533916778703	0.553383321654031

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ACGTCACGGCAG	700.550651942442	0.332536964155799
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ATGACAATGAGC	700.583221990916	0.148653657895838
AAAGCTGACTGT	700.591778735963	0.228154082955533
ATTACGTCGTCA	700.605259257156	0.216915181663139
CAGTTCTGAGTC	700.615775547808	0.646551768315864
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ATGACCTGGTCG	701.103160562641	0.352875708283643
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GTCACGCTCGGA	701.109987350041	0.369764344401759
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GTCATTCGGGGA	702.318099091035	0.135676367576106
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GTCAAATGTGAC	702.362641470661	0.516210313703785
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GATGACTTTTCA	702.38018334033	0.396086384185951
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CGTCATGGGCAC	702.412209719896	0.494000936820794
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CAGTAATACTTA	702.44352060999	0.433110845370119
GTCATCACCCAC	702.448517428179	0.268889377517419
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TCAGCTGCGTCA	702.454327954621	0.224483426596824
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ACTACCGTCATA	702.465064478815	0.350991508233369
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GCCAATCGGTCA	702.481518108577	0.400755778078151
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AGCTGCGAGTCA	702.505313590984	0.229136319364385
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GCACACTATGAC	702.511169928001	0.308405055606115
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AGTCAACGATTA	704.171045602599	0.523861944379659
TACTGATTATGA	704.189187020149	0.43186373204022
AGTCAGAATCAC	704.191303796072	0.399103796833772
CAGTCAGCACAG	704.193951636562	0.413389795575995
ATATCAGTGTC	704.195271741544	0.603951904744424
GCACAAGGTGAC	704.198044780636	0.359934040682008
GCTGATGATGAC	704.203997030863	0.6682130325393
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GTCACCGGGCAC	704.210573598902	0.373297860536545
AGTGACGTTGTC	704.230275132336	0.410990241617685
GTGACACGATAA	704.23496530914	0.231487670697439
GTCACCAGCACA	704.241059628316	0.36980420570416
ACTCATGGCAGG	704.2416702983	0.631890725178502
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CACAATAGTGAC	704.249064711909	0.434868874157025
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GTCATAAAGAAA	704.263639508306	0.229679227625133
AGAATGGTGACA	704.265834753914	0.290070344517876

GATCGACTCAGA	704.282770067244	0.52276625771097
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CACGTGGGTGAC	704.300116973846	0.399726183579213
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TCACATCGGTGA	704.315240331131	0.635153854425051
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CCCTGACGATGA	704.367871280999	0.305210756922015
CAGGAGACTCAC	704.368063288071	0.352776453230217
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AGGAGGTGACAC	704.386145460863	0.186300375594558
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GTCATTGTATAA	704.395680525354	0.467162094158025
GTCACGTGTGAA	704.397424399657	0.398224922479534
GAGAATCTGTCA	704.399125276789	0.189675692409256
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AGAGGATTAATC	704.418292546443	0.370096075823916
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ACTGTCACCAGG	704.893586794798	0.384407267897008
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GTCATTATCAAC	706.0403046531	0.429164249656552
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GCCATGTACCGA	708.064656121678	0.381763668877048
CTCGCTGATTCA	708.067473135383	0.148303734841149
ACTCATTTCCGGG	708.073316517061	0.316313797944137
TAGTAAGCGTCA	708.082706920083	0.337278110398795
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GTCATACGGGAA	708.101040703768	0.425399828045618
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ACTCATACAGTA	709.937881573717	0.200986164695058
ATGAGTCTCCCG	709.941304286435	0.22890430012976
CTCCATAATGAC	709.942539060981	0.380591327462926
CGTCACTGTTGC	709.949454453091	0.36326046826579
TGCGAATGACCA	709.952689064428	0.371336389174429
ACTTTAAATGAC	709.956934224869	0.297982238211246
TGCGTCAAAGAA	709.95763230273	0.134336821785628
CTATATGATGAC	709.961067622329	0.277534420440414
ATACTATGTGAC	709.965448319271	0.344373985414527
TGTCATTAGCAA	709.97612695232	0.380462969631551
AGCTCAAGTGAC	709.978558003166	0.472223911402816
AGTCACGCGGAG	709.979810374601	0.284240779182774
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ATGGTACTCACC	710.012970986081	0.10951445261273
ATGACTTGCCAC	710.021344978289	0.256535749044458
GGCCCTGTCATA	710.032585157684	0.256052271660655
ATTAGCACGTCA	710.041805732571	0.396985066128112

GTCACCCTTCAA	710.044927155221	0.229077549862253
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GACACTGATTCA	710.053573389268	0.539135106164733
GTCATTTCCGCA	710.055338428731	0.3305937540873
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CGCATTAAATGAC	710.1268779967	0.347687333188241
CGTCAAATGACA	710.12703082072	0.311057641687421
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A G A G T C A A G A A T	711.754295450904	0.388848179549656
C A A A T T C G T C A A	711.759319288009	0.281501620886557
C G G T G G T G T G A C	711.767403819861	0.254841535605098
G A C A T A G A C T C A	711.771469310814	0.496463905331652
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G A G A G C A A T G A C	711.781314981906	0.326464761084937
G A T T C A T A T T T A	711.793811497455	0.548187949316287
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ACTAATAGTGCC	713.634903237157	0.41378325845518
ATCCGGCATGAC	713.637473041109	0.374164011239686
AACTGCGTCAGG	713.641246801554	0.330665992467194
CGTTGACTACAA	713.645478017149	0.229268175235227
AGGCATTGTGAC	713.656607807634	0.200216104308346
GTGTCACTGGAA	713.659788262567	0.237593392450439
ACCTGATGACCA	713.665527800729	0.324465883320919
CTCGACTCGTCA	713.678850984228	0.464861632158276
CACTGCGGTGAC	713.68182971195	0.538133166761093
GGCAACTGTGAC	713.687738938823	0.400123754493749
CGGAACAATGAC	713.700033803911	0.341153251412479
ACGTTTCTGTGAC	713.70682494928	0.47530471236362
ATGACAGCGTGG	713.709056179322	0.299749854629105
ATGTTAATGACG	713.723010826687	0.455403403872958
GAGTATAATGAC	713.734729749833	0.456994177280482
GTCACGCATATA	713.737244720621	0.23043248939342
AGTCACGCGCCG	713.740059353373	0.384234042737218
TCTTTCTAGTCA	713.74229052766	0.262517973177911
TCGGCGGAGTCA	713.746542981313	0.407294431308072
ACCGTATTAGTC	713.749379630672	0.336106075502938
CTCCTAAATGAC	713.752848993761	0.476363719222076
GTATATTGTGAC	713.756988777894	0.319229231361893
CATGACGCCTGA	713.767849488042	0.335345071155224
CCCATAGATGAC	713.771987254132	0.548548284165604
CGGCGAAATGAC	713.775403486093	0.42739932603971
ACGTCACGTCAG	713.778317498565	0.339001017668567
AAGTCACCCTTA	713.779038396064	0.29257776920819
GAAATCTATGAC	713.779672216157	0.275640932522091

GTCATCACGATA	713.782341154254	0.365875717831807
GTCACAACCTTAA	713.786197882987	0.435939970923478
CGCTTGACTAAA	713.787297555067	0.416909481687871
GTCACATATAAC	713.788273347721	0.213577080237914
CGTGACCGTGAC	713.788988391133	0.366077789522002
CTTCCGTGACAC	713.790688582259	0.365555893496655
GTCACATAGCAC	713.79607155771	0.371203230313398
GTATTAGCAATA	713.808228966103	0.256786706435119
GTCATTCCCGAA	713.809564422126	0.270793315849197
CATGTGGATGAC	713.813355279825	0.484743170971396
GCGTTGTAGTCA	713.813989453715	0.354685113090037
GTCACCAAATAA	713.815313375307	0.368198691250847
ACTTTGATGACG	713.819879993726	0.315827309466663
ATTACGGTGTCA	713.831333885285	0.342686450814359
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ATAACGTCACCC	713.857040680026	0.345329090631665
CACAACAAGTCA	713.868989734736	0.364298592015706
CCGAGTGACGGA	713.873062742866	0.333474194233523
CAATAAGCGTCA	713.876236928984	0.528841837785332
ATTGCTCAGAGA	713.884931124648	0.395125951444223
GCTATATGACCA	713.901446234651	0.307710583743993
GACGATGGGTCA	713.904367546822	0.486232070726276
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AGTGGGAATGAC	713.915064753563	0.251808050183034
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ATGACCCAGCTA	713.925040609759	0.319069752303718
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GACACGTGTACA	713.933017444232	0.341258569263765
GAAGTTAAGTCA	713.945065687941	0.435028988476245
GTGACGCGGATA	713.953008045648	0.209922291366525
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ACTCATATTTAG	713.964754485187	0.43713023612246
ATGAACGGTGAC	713.976031633287	0.268362959040727
GATGTATACATC	713.980712516938	0.469656271812341
CGGTTTGCGTCA	713.994978750533	0.573428540487006
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CGTCATCTACTA	714.003607566503	0.283247030154269
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GCCCTGGAGTCA	714.007912703485	0.377501391285426
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GGATTGCTCAGA	714.013396769951	0.342188661460682
GTCATCACACAC	714.013695111512	0.352795656660239
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GTCACCCGGTAA	714.030387431796	0.22674857298607
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TAATCCCAGTCA	714.067634280678	0.420930565451371
ACAAGTACGTCA	714.069303003667	0.412479471719044

CACGTCACGGTC	714.078677165209	0.439570932356597
CGTCATGCAATA	714.080361705223	0.213043948857877
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CTCTTAGCATGA	714.141183404207	0.523836283482181
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AAGTCACCCCTAA	714.144673884102	0.302636848333563
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CAGTCAACATGA	714.161357907458	0.46632743642268
GCCGGAGATGAC	714.162610128817	0.427703345533674
ATGACGCCGTAA	714.171276076006	0.45238011437717
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ATGACAGCGCAC	714.181179707222	0.352115877851616
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GTCACCACCTTA	714.200927353787	0.194893834023976
GTGAGTTGTCCA	714.201046875042	0.447695851082548
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GTCATATCAGGA	714.210738175272	0.390709477276762
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CGTCATCAGGCA	714.221993088035	0.278501399853434
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AGGCCACGTAAC	714.253672118011	0.363459216473321
AGATTAAATGAC	714.255440714182	0.337177358802277
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ACTCCTTACTCA	714.272448217666	0.22100600778201
CTAGTAAATGAC	714.279329623878	0.498756820169278
CGTCATCCCTTC	714.282149090057	0.169334868469417
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CTGCATGAGCCA	714.284017770646	0.463530397951561
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GCCAGTGGTGAC	714.296665013186	0.279003887636833
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GTCATCCCTTCA	714.310188999392	0.282406718917882
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CAGTGGTCACAC	714.350869630727	0.16050624441955
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ACCATTATGAGT	714.375685682251	0.414067055714746
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ACTCATTCTCGA	714.505828553967	0.273133627198467
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GAGACTATGTCA	714.549912180464	0.536962039764124
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CATCACTAATGA	715.421243620803	0.483072571687586
ACCATACGTGAC	715.429974303608	0.303637039376345
ACTGTATTATGA	715.433156451004	0.359948562026206
ATGTACACGTAA	715.434647436829	0.406173366379651
CGACTATGTCAC	715.434686628603	0.222709796172866
GTGACTAGCCGA	715.454313747101	0.242800378203023
GCTACAGACTCA	715.458283763719	0.342585242667968
ACTCATACCTTC	715.458427237468	0.289823181316747
AACTGATGACGG	715.467002052786	0.238218468542338
CTAGACTGTGAC	715.468337928551	0.381342961837238
AGACATGACACT	715.472478447301	0.31916278062588
GAGCCAAGTCAC	715.472625456837	0.363087563185765
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CGAAACCGTGAC	715.49027012993	0.390196450905377
GTCATCAGGAAC	715.493672072184	0.466109898063116
CACGATGGTGAC	715.499467507638	0.239964355488904
CATTGAGTCGAA	715.506899433264	0.40808971703687
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ATGAGTAGCTTC	715.512593587317	0.394866888818934
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GTCACACAAGAA	715.548948339547	0.383179119012588
ACTCATCTATGG	715.560347227967	0.197225637016461
ATACGGTGTGAC	715.565106177101	0.433979553408945

AGATATATGTCA	715.57247867915	0.164740966438311
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GAGTCAAAGCAA	715.596739576698	0.392232228863098
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CAGTCAGATAAG	715.611808841248	0.447517222866182
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ATAGCATGACAC	715.649365219555	0.232384605516803
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ATACGGTCATCG	715.652469202604	0.209783698193514
CTCCCTGTGTCA	715.652957490312	0.258762560338767
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GTCATTGGTGGA	716.062906815716	0.260639429322057
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TGACACTTCACA	716.087317576421	0.400834612755566
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GAAGGTATGACC	716.110015450919	0.203283409894013
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TACTCATTGTCA	716.135579294072	0.209350938843543
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AGTCACTTGTGG	716.1940587028	0.406655461775132
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GTCACCAGAGAA	719.304496810134	0.340379149288389
AGTCAGACCGAG	719.320051780426	0.333465623044284
GTTTATCTGTCA	719.321065280469	0.250019401772882
ATGTCACAGCTA	719.321758570177	0.31349711955014
AATAGTAATACT	719.325986892455	0.327679315239782
GTCATTTTGCTA	719.326096533212	0.394012924087527
AAAGTGGTGACG	719.329896528916	0.338732389949792
GTTGTAATGACA	719.332239798951	0.368201354008615
ATGACAGACCTG	719.333595325119	0.329944857231452
GTCACGCGTAAC	719.34171328436	0.35980071542913
ATGACCGAACAC	719.343398633924	0.393934258422403
AGGTTGAGTAAC	719.345754426939	0.328747291581527
GACTTGTTATGA	719.348167292116	0.601589519945982
CCAAGTTGATGA	719.356560619617	0.51157280123879
ACTCATAATTGG	719.358698811092	0.406783300112852
GTTGCTCACACA	719.359542797834	0.419785338338444
TGAGCCATGCAA	719.363337268504	0.405415276085952
ATACGATTACTC	719.38513113032	0.39302313222111
GAGTAATTCGGC	719.391528822411	0.428096232908459
CTGCACGACTCA	719.39568581871	0.38250113511397
CTCACATCGTGA	719.396706298443	0.226809199518553
GAATGATCTGTC	719.401652922471	0.336451281488165

GCCCTGGGTGAC	719.405755019884	0.495417205535692
CTCGCCGGTGAC	719.41594508504	0.424327039347812
TCGCATGACCCA	719.417693253197	0.362097515443593
CGGATTAATGAC	719.423535120431	0.270462147140972
ACTCCTCAGTCA	719.438775786107	0.335781851986229
GACTTGTACCA	719.445909348203	0.315523432712132
GAACGTGTGACA	719.453706960485	0.260248351524278
CGAAGTTGTAC	719.455599426564	0.345064659954259
CTAGGGTGACAA	719.466070317284	0.353425314862467
ACTCATTTTAAG	719.470640763431	0.372411375576492
GGCACATGTGAC	719.470644450103	0.54792149233428
AACCAGTCAGTA	719.473422306154	0.365155591586728
ATTGCGTAACTG	719.48529746969	0.355656439620972
AGGATTATTCAT	719.485772025717	0.309540194982917
CCGTGTGAGCAA	719.486332974832	0.313066990198019
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CGGGAGATGACA	719.499481289952	0.24988727491091
ACCAAAGTATGA	719.50338818331	0.371665199346716
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ATGTGGCTCACC	719.578166589242	0.37762041718581
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GAGGAGAATGAC	719.587746359097	0.216243014038713
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GTCACTACCGTA	719.593117534047	0.499198090272952
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CATTTTGACGCA	719.631859685897	0.243225252303583
GTCATATGTAGA	719.634083584882	0.219881694713379
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CGTCACGATGAG	719.702476812951	0.32624876306682
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AGGAGACTCATA	719.761477073889	0.227190701475842
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GTCATGTATTGA	719.837277544788	0.209919020477989
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ATCCGGGTGAC	719.846422710292	0.422731112557875
GGATATTATGAC	719.848545454509	0.177526440038928
CCCCTCGATGAC	719.857708071714	0.30535681274128
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GTCGGCGAGTCA	719.993777162629	0.268221726528233
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GTCATCCAGTA	720.00845981573	0.339760858870663
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AGTGTCACGCTG	720.022486442931	0.2900492308331
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CGTCATTAGGAA	720.092200238822	0.183074646322836
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AGACCATGTCAC	721.075500151911	0.305976203079171
ACTTCGCATGAC	721.075795370681	0.386761269881784
GAGGCGGATGAC	721.076632788795	0.302688319450985
CCTCAACGATGA	721.083693327529	0.574994777556419
ACATGCACGTCA	721.088270237577	0.489382330224086
ACTCATTAGAGG	721.093487669536	0.195362075085776
GACCCTGAATCA	721.107920762039	0.306174742413314
ATCTCATGACAC	721.10923595427	0.328830094650893
GATGAGCCAACC	721.113601859373	0.347623795520089
AATCACGTATGA	721.117865942732	0.366520962637374
CACTTCTAGTCA	721.11816307617	0.246411323154878
GTCATGTGCGAC	721.130740693798	0.445834179134467
TCCGGATGACCA	721.135212268817	0.415120809650118
CGTGTGAGCCAC	721.144965296438	0.431545689566437
GTGACACTGACA	721.147388228546	0.568993188229507
TGAGAATGACCA	721.164201975055	0.25641166691165
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ACTCATCGATAG	721.172576569632	0.162096520901119
TGACTCTAGCCA	721.186013471621	0.234367364984761
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GTGACGTGCTCA	721.195369348792	0.143901592694356
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CAGTCATGGGCC	721.206973389729	0.397342596386084

CAACAGGTGACA	721.216312029661	0.396377053464651
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CACCACGTATGA	721.223165778137	0.346090990973377
CGAACGCGTGAC	721.227159316095	0.462524055443665
CAATTATGATGA	721.228583647108	0.576752925969193
GGTCATGACCGA	721.228960177919	0.326317647777618
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CGCAACTCGTCA	721.24372899466	0.323311385323556
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CTGACACGTGTC	721.248214887873	0.297872091286326
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GTCATAATGCCA	721.894812966695	0.222902692064705
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GAATCACATGAC	722.722110613131	0.244195478956926
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TGACGGAGAAAA	722.731150486011	0.215968264940138
GTAATGCATGAC	722.73287957392	0.30901161057878
CACGTCAGCACG	722.735932038336	0.439239855448274
GTCGACGTCACA	722.737671622177	0.195428074162366
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ACTAGTTGTGAC	722.740537000947	0.593744585205891
GTCACACTGCAA	722.75194397192	0.311758325913849
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GTCATTGCATAA	722.7606646837	0.308727440036238
GGACGTGATTCA	722.769729959867	0.369406079060035
GACTACTCATTA	722.770350945261	0.345298050655609
CCGAAGTGTGAC	722.772131058776	0.361553646315196
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GCTATGACCTAA	722.858490881414	0.22144815051897
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AAGCGATGTCAAT	722.867873890496	0.210563660723347
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CAATATTGCTCA	722.934283791057	0.328539639314879
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GTCCAAATGACA	722.944859963971	0.301984104381089
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GACTTTGACGCA	722.958278221282	0.298041719274696
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AGGCTTGCCTCA	722.962297937297	0.238810521683893
ACTGTATATGAC	722.96731902028	0.4153312556415
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GTCATTGTCCAA	724.373930663825	0.326247218851076
GTCATGCCCAA	724.376503061417	0.624599856385296
TCGTAGGACTCA	724.376614045294	0.499118299537435
AGTCACGACAAG	724.378212720842	0.125172410121356
TAACCCGAGTCA	724.379291364884	0.372669878027361
ATGACAATGTTG	724.379303761246	0.194471160808859
ACGTCACCTGAG	724.381062692136	0.22774080398405
GTACGCCTATGA	724.381188208321	0.296977348960312
AATAGATGTGAC	724.396741317729	0.408837182409296
ACCCTTTGTCAT	724.397689516334	0.275612724969483
AGGCTTTGACTC	724.399511936824	0.334826339750826
CATCAGTAGTCA	724.401884853295	0.415157241346975
AATGAGTGAGCC	724.403764478487	0.325722153855952
CCCCTAGATGAC	724.40591538632	0.267672506844766
CGTCATCTGTTC	724.42176550358	0.293438126263173
GACTAATCCACA	724.423589592261	0.364634805950062
CTAGCCCAGTCA	724.426026890021	0.219404371540513
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GTCATATGCACA	724.437250889866	0.336320749309731
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ACCAGCGATGAC	724.454721821919	0.358323311324358
ACTCTTAAGTCA	724.455633449908	0.310115576813288
ATGACAACCCAG	724.470956940713	0.252991081919627
GTCACAGGATGA	724.472702337163	0.357494041479561
GTCATTGAATAA	724.483319611549	0.356228627199005
ACTCATTGAGAG	724.483973985232	0.291196106528641
GACCCCTGTGAC	724.486818194801	0.253148571214142
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ACCCTGGTGACA	727.938169865421	0.362294389330782
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CATGAAATGACG	728.067757801104	0.385825891688258
GGTCACGGTGAC	728.070633765867	0.375050977097925
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GATCAGGAGTCA	728.082134226256	0.352443921071488
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GTCACCCTCTCA	728.136108694586	0.248869074226111
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GTCATCAAGGCA	728.2406695191	0.403166906458925
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CGTCATTACGAA	729.983998580615	0.203823885011752
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CACTGTCGTGAC	730.015828283818	0.361468031020175
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ACAACACTCAT	730.018969425725	0.306356062604538
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GTCACACGGCCA	730.075521929172	0.219191333267433
GCTTCACATGAC	730.077173693481	0.425694208699475
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CAGTCAGCAGAG	730.085270716221	0.388511529245899
ACGCGTGGTCAT	730.085595510591	0.208290386543557
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ACTATAATGACG	730.134367760355	0.433407847188535
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CAGTCAATTTGA	730.176331468586	0.391535331253781
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CGCTCATGTGAC	731.807359044847	0.412830435741033
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AACGATAGTGAC	731.81562808737	0.424575535115932
CGACAAGATGAC	731.819659487964	0.264027662195322
CAGATTAATGAC	731.830905703888	0.296713099670145
CGACACGTGTCA	731.835255459252	0.369272632486432
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GACTTCGCGTCA	731.836118429926	0.352905124506257
GCCGCGAATGAC	731.838642159374	0.473348758882083
GATCCGTCAGAC	731.847635234451	0.322453910775654
TGACTTAGTAAA	731.849244540101	0.450941384959104
AAGCCAGATGAC	731.861374342242	0.299009559131146
CACCGGGATGAC	731.86815157388	0.283558428589526
CGTGTACAGAAA	731.87659454222	0.336906802868313
TGATTCTGTGACA	731.884017372123	0.388388915163465
CTTCAGTAGTCA	731.886130646166	0.297263875777129
ACGTGTCCGATGA	731.887640737462	0.381205901846751
CCTGATTGTGAC	731.889403130779	0.364785584460872
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TCATGCACGTCA	731.895669816114	0.289936326229435
AATAAATGACCA	731.898822365648	0.354633904679234
ACTCATACTATA	731.90348434768	0.271925113301571
ACGGGTACGTCA	731.909076308925	0.37004510696563
GACTAATTTCTC	731.911480294888	0.47010269190904
GTACAGACTCAC	731.913389724697	0.351100526635974
GTCACCGGCAAA	731.92174391616	0.312021961977499
GTATGCGACTCA	731.926956307973	0.445666269476473
TGAGACATGACA	731.929084986039	0.35916242318289
GTCTTAATGACA	731.9310438499	0.305973601639748
ATGAATAATCGC	731.932576125793	0.317850445114887
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CTGCTCTAGTCA	731.957385656292	0.442368103133887
GGGTGGAATGAC	731.96471319689	0.314652254981963
CATTTAAAGTCA	731.965214621131	0.42679671940634
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CGAACACTGTCA	731.980808774316	0.213751062872973
CCGAGAAATGAC	731.988607292	0.302893556951654
CATATCATGACG	731.995662847547	0.285217010209606
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GACTCAGACTAC	732.010947205917	0.237923496672643

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GTCATGTCTGTA	732.01719265133	0.250103998754914
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CGACACAAGTCA	732.032570482422	0.301288629263893
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ACTCATCCTAAG	733.500798359691	0.300216879317734
GGGTTTTATGAC	733.512932511301	0.344829282806
TCGTGCACGTCA	733.514527947977	0.331133325449455
AGCGTCATGTGA	733.523359651178	0.370913952526994
GTCTTCCGATGA	733.525386495261	0.486866737010975
GTTGCACTCATA	733.528851846001	0.309914587021252
CGAATAATGACG	733.531030511795	0.357027622761826
GGTGAGAATGAC	733.533732726869	0.282799832251617
GTCACAACCTTTA	733.534080039578	0.27156683156479
GCACTACAGTCA	733.541000891762	0.448534798177232
GGTGACAGGTCA	733.541530482848	0.219881618372842
AGTCAGAGGGTC	733.554959791305	0.192065012814994
CTGTCAATTTGCA	733.555366430158	0.294080906766455
GTTCTGTGACCA	733.556716699457	0.439600236074792
CCAATTGTGACA	733.558578545135	0.221213066003595
ACGTGCATGAGGC	733.564498187679	0.258562067217046
TAGTCAGTGTGA	733.566805365582	0.319175912094536
CAAGATTAGTCG	733.569152436559	0.346700846234362
ATCCACACGTCA	733.570982926359	0.246255376955162
ATGACTTGACAG	733.571166881445	0.315705508373826
GTGAGTACGTCA	733.571342293336	0.314256768101074
GCTGCGAATGAC	733.581235972866	0.252723807236141
ATCGGCAGTGAC	733.585724285777	0.23093085449465
AGACATAATGAC	733.595383786746	0.261501601675596
TATACTGAATCA	733.599001653009	0.253445926550483
AGCCGTTGTGAT	733.600078564348	0.176480414728279
AGAGCAATGACA	733.601926769411	0.304372800255116
ATAAGTCAACTG	733.602651209002	0.283909308138441
CAGCCTTATGAC	733.606220339824	0.362261096200666
TGAAGTGACGAA	733.615017498258	0.194058497553586
AGCGTCATGCAT	733.618172523603	0.260910364382976
CCTAGCGACTCA	733.620019025994	0.637312772365159
GTCAAATGACCA	733.623526540257	0.440376917554929
GCGACGACGTCA	733.626665803567	0.355004424323633
GGGTCATAACGA	733.633724653549	0.158943702065071
AGTATGCATGAC	733.650193312919	0.374030773753675
CTACCGGTGACA	733.651971652548	0.297495269011547
ACACCGATGAGT	733.664011946147	0.255655665560303
AAGTCTAAGTCA	733.668816495509	0.308744996445421
GTCAGTCGTAC	733.672465396016	0.312743869061358
CATATATGACCC	733.681079683735	0.357835016945007
TGGCTCAGTCAA	733.699590425669	0.541060182449292
GGGATGGATGAC	733.716266108103	0.226029005596599
TGGCCTGTGACA	733.717095668531	0.527310828977073
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GACTAATTGCTC	733.730183332488	0.341967828625581

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GTCACGCATCGA	733.738770415259	0.284677498517241
TCATAGATTTAA	733.740329096564	0.588024201480441
ATATTGTCACCG	733.751289515205	0.251317383700275
GACCGCAATGAC	733.753974127746	0.32049233219267
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TCTATAATGACA	733.760691309232	0.234544139407905
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GAGTTATGACCC	733.768969254806	0.391761617695079
CGAAAAGTCATC	733.779702555592	0.374414508446864
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GACGTGACGCCA	733.790944981901	0.242999528583538
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ATCCATGGTGAC	733.817577376274	0.329370166423544
CTGAGTCGTCGA	733.819425346195	0.40850387131668
CTAGGTAATGAC	733.822806155208	0.240495859561562
CTCGATGATGCA	733.823086256546	0.442511746193554
CATGAGGGTGAC	733.823286967962	0.295536409106547
GTCATTAGCCAC	733.831139584768	0.33373800825796
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GCCCAAGATGAC	733.8439669778	0.262002459608891
CGCTACCGGTGA	733.853237617318	0.400403480393822
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GTCACGCATGAA	733.872975838325	0.481559584955018
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ATGACGTCGCTG	733.88115082346	0.208876139399703
GGTGAGTATAAC	733.885952053534	0.303304134657891
GTGACCCAATTA	733.887319533076	0.202523226954151
GACTAATCCGC	733.891467240864	0.298088197277007
ATTACCGGTCA	733.891539410797	0.282634596047975
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CAGGAAATGACG	733.909594795554	0.216733825313045
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GTCACCAATGCA	733.994586928758	0.332976295220237
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GTCACTTTATCA	734.011826038391	0.386444970997197
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CGTCATGCGTTA	734.078168080894	0.43007068503237
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GTCACGAATGAA	734.081300224982	0.316573230507278
TAGACTTCGTCA	734.088589769608	0.410944449962883
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AAACCATGACTG	734.191843936664	0.222051065808881
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GTCACGCATAAC	734.425013770204	0.35387365270862
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GTCACACGTAGA	734.461006365822	0.19565148085836
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AGAGTAATAACT	734.598757954815	0.268445778079808
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ATAACCGGTCA	734.604204902144	0.591752376754909
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AGGTGACAGCAT	734.612040074252	0.427681704522148
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ACCATGTACACG	735.007074727708	0.308187857374502
ATGACGACGCCA	735.013982996223	0.298456974031247
TGATTACCGGCA	735.019803985069	0.329787106150007
AGTCAAATCGTC	735.023400819905	0.41381140295489

ATTGAGTCGATC	735.030673356333	0.311143052797543
ACAAGCAATGAC	735.038651219471	0.384403369520146
TCACCAGTATGA	735.04002240828	0.390417587432717
GGTACAGAGTCA	735.040286944101	0.132377892990846
GTCACCTTGACAA	735.043376342014	0.366279646132126
TCATTTTCGTCA	735.059033116343	0.429550571665238
CGTCCAGATGAC	735.059685942401	0.26140565271397
GATCAGCATGAC	735.066157981812	0.275790685483583
CCAGCTTACTCA	735.067115334758	0.339259638134389
AATAATTAGTCT	735.070024090001	0.409007323463394
CGTCACAGGTGC	735.073539379098	0.296265915769667
TGACTACTCTAA	735.074105708788	0.409095661460665
CTACTAATGACA	735.094449460425	0.262389365238025
ACTGACACAGTC	735.100154667352	0.166371722510365
GTCATAAGGATA	735.100683361631	0.245853089819598
ACATCGTGTAC	735.10180693589	0.370261207093819
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ATGTTGATTAC	735.112486602422	0.301502316014543
GTCACGGTATGA	735.112633738348	0.330231989956965
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GGTGTTCATGATA	735.120592612962	0.294252466625434
ATGATGTGCTG	735.122580619232	0.28418708844398
TGATAATGACCA	735.130670027963	0.311481610418263
CGCACTTGGTCA	735.137918236467	0.282201558958197
TCGTCATGGTCA	735.139695545096	0.33409315971321
AGGCCGTGAGTC	735.140775333385	0.424933339093325
CAGCGTGTGACG	735.150990226053	0.366852057409118
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ACTGATTAGAAA	735.180168319573	0.370799089303516
ATCCAGATGACG	735.185628829442	0.390072358601225
GATCTCGGTGAC	735.187050530743	0.407435519377923
AGTGTACCGCAT	735.188806502688	0.371657402271795
AACTCCTATGAC	735.194473910631	0.415692667544866
ACTCACAGTGAG	735.195015383788	0.297534246594811
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CATTTATGAGTA	735.209915113895	0.331592150767971
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GAATCATACAAA	735.279827172242	0.563906023320206
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GATCTTGACTGA	735.30710283469	0.259686303376881
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CACGTCACCTACA	736.798274904743	0.370072913109801
ATTGCTCTGACG	736.799293037112	0.289291190995865
GCAGCGTGTGAC	736.810307923514	0.41009954857982
CGTCACTGACAA	736.810465021663	0.355101561517087
ATGAGTAGTCTA	736.814489665542	0.224819714084483
CATTCGCATGAC	736.818682019794	0.454508444530854

AGTCAGCCACCG	736.824984286798	0.351494978967975
CGTTGCGACTCA	736.826154107158	0.38606428270841
CGTCATTATCAC	736.831705250809	0.367590974112813
CCCTGATATGAC	736.832576354518	0.377048497664584
GTCATATATCCA	736.838949158269	0.294180157738423
GACGTTAAGTCA	736.841979954634	0.296994303679677
GCCGCTTGTCAC	736.842366210878	0.351837929798205
AGTCAGAGAGTA	736.865150551189	0.261906519817196
AGCTACGCGTCA	736.869012893787	0.358010432812158
ACTCATAGGATG	736.871114759514	0.407068473697194
CTAAGTGACCAA	736.887061699718	0.178229074034656
AGAGTCAAATAA	736.887318776311	0.387760875352085
ATGACAAGAAAC	736.893201261034	0.326189639156682
CTCTATAATGAC	736.894326155006	0.350020021402511
AGACTTACTAAT	736.894629521385	0.334341984100348
TGTTACACGTAA	736.906499470127	0.456850687413131
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CAGCATGACACC	736.911729096091	0.309812637570789
ACTGTTGTGACG	736.920106032127	0.320183227421529
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GGCTAGTGTGAC	736.931372309798	0.294066039441151
CAGGTCTGTACAC	736.940263768619	0.467901770065994
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TGTCACCAATAA	736.981489504038	0.296544184102539
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GGTCATTAACC	737.000112600387	0.429747829904931
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CGGTCGAATGAC	737.021147836824	0.340725799047908
ATGACAGTAAGA	737.027212518012	0.211943072484632
CTCAGTGACCAA	737.030318872121	0.416953177658727
CTCGCTTATGAC	737.030705237844	0.301216618201202
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TCATGTTAGTAA	737.043820765959	0.307158472495552
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ACCAGTCAGAAAT	737.072473746763	0.489243859576458
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ATGACCAGCTCA	737.10692617247	0.365736078677737

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CATTCAAGTAATC	737.282465352955	0.299582591487622
GTCACACGCTTA	737.288222274398	0.239850412968948
GAAGGGTGTGAC	737.288524309489	0.217507808765879
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GTCACCGATCCA	737.302332520313	0.335048603872482
CACTAATGACCA	737.302412530696	0.297078253076273
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ACTCATTGAGT	737.361052394347	0.271259228257963
CACGTTATATGA	737.365444605348	0.329124066058889
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AAATCGTGTAC	738.451112058722	0.200520015163257
AGCCCTTATGAC	738.4599811649	0.379154165342741
GTCATGCTCCAA	738.460200251866	0.20821350385933
GCACTGACTGTA	738.460635540044	0.25951319137491
GAATCATACTAC	738.463073834743	0.340731072416863
CCCTTGGGTGAC	738.463347538529	0.207894768327749
ACGTCACATTCA	738.466295316031	0.338217025948531
GAGTAATCCTGA	738.472674430295	0.349322317022123
ACTTTAGTGACG	738.4740667184	0.318904384836703
AATGCAGAGTCA	738.477830753111	0.40109757552408

GCCGAAGTCACA	738.480282510839	0.395060301304498
GTTGATTGGTCA	738.480693356674	0.279059360390759
ATGTGGTGACGC	738.485132957297	0.302174305648621
ATCTGTTTGTCA	738.500145265485	0.230092760350529
ATGACAGTGAAG	738.505064896785	0.309987096482808
GCGTCACAAGAA	738.506990049493	0.367064087413609
AGTGAGTCTGTC	738.513582176783	0.245433923605978
CTCCATAAGTCA	738.516131974973	0.40201280858191
AATGTACCGTCA	738.522721630354	0.295178254886792
AATGCGAGTCAG	738.523276780182	0.250053587672414
GTAAGTGGTGAC	738.523363972414	0.346297612361183
CTGCAGTGACGC	738.535358382634	0.338349006220374
ATGAGTAGTAAA	738.545162516292	0.294713544267306
CATTGATTAGTC	738.547501137969	0.61162600647075
GTGTCACGCTTA	738.547988746382	0.229013355970924
AACATGTGACGA	738.548335406707	0.295649362766131
ATGTTTACTGGA	738.549563226514	0.361989241244104
ACAAATGAGTGA	738.558430950867	0.433442908394254
GATACTGACTTA	738.567064556521	0.346753235488085
ATGATATCATCA	738.568741142637	0.28264591253012
CTTCATGACAGA	738.573521071014	0.274649872256846
ACGGGTAATGAC	738.577476116074	0.376574747635043
AGTTACATCATG	738.599731277739	0.166448864556762
GATTCATCGGAC	738.600481481499	0.302939710119693
AGTGACAATATC	738.605003103515	0.253084388656178
CTGCCGCTCAC	738.611968238936	0.196934575597287
CTGACTAGGTGA	738.619978780473	0.48428498383991
CATAAGGTGACA	738.623998071459	0.405397383237427
GATTCATCTTTA	738.624396842038	0.321926468804995
CGACCTAATGAC	738.624572664506	0.24988224488206
AGCTTTGTGACA	738.626033415255	0.453509994545436
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ATGAAATGACAA	738.705586315624	0.375153832318946
GTCACCCTTAAA	738.713097725793	0.320076276311184
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GCGCCGCGTGAC	738.717818599017	0.556310509398632
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ACTGACGTGACA	738.739100211283	0.138870917872197
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GACACCCTATGA	738.986999701608	0.460203496394681
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GAAACCTGACTC	739.103654037122	0.250989086928941
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GTCATGCAACAC	739.312889784418	0.512985442279226
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ATCCGGGATGAC	740.147476886165	0.342567887934572
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CACGATTAGTCC	740.150577737809	0.386676734818232
GACTCAGTGCAC	740.15331687402	0.462591874442639
ATTGACTACAAA	740.154317837368	0.227885232511455
CAGCAAGTCATA	740.155431596392	0.146896491155989
ACAGTTGTGACA	740.160741273362	0.40368308176263
ACCTGGCATGAC	740.160971886141	0.450390097358638
ATGAGTAGGCAA	740.168227919857	0.214692906712493
CTCCATACGTCA	740.168934624447	0.241418853306775
ACTCATAGCTAA	740.171842938941	0.386679847020651
GTCATGCATGTA	740.1760197703	0.39822242392715
GTCACCGGAACA	740.177022567027	0.448158151281529
CTCGGCGAGTCA	740.195637089877	0.23916523547758
ATGACATTTATA	740.200098392811	0.296401031527051
CGTCACCACATA	740.202235778819	0.327433475268492
TAAGAGTCGACA	740.206811881502	0.275062505992322
AGTCACGGGTAA	740.213324261932	0.257077609798982
ACTGCAAATGAC	740.217199009308	0.282287240637293
CAGCTGGATGAC	740.222761609422	0.221829463367305
AAGCATCATGAC	740.230913076933	0.342930151324262
CGTCCTTACTCA	740.236176456808	0.243562367235312
ACTTCGGGTGAC	740.240163562002	0.44408840995558

CTGCTTGTGACA	740.240321696827	0.191808806136761
GACAACGTGACA	740.240533558909	0.389208058464194
CGTAACGTGTCA	740.242438096925	0.429581120235403
ACTGACAGGTCA	740.249929727915	0.272667044086171
AAACCCCGTCAT	740.267701777816	0.21554706435568
CACAAAGGTGAC	740.274797420661	0.199268301699313
TGACGATACTAA	740.28178002907	0.485472673423919
TCATCTGACGAA	740.286499453243	0.487075007160921
TGACGCGACGCA	740.286616456479	0.314240599232711
TCCTGCGACTCA	740.305390658312	0.258021338691257
GCATGAGAGTCA	740.308110488761	0.217602951854861
TCGATGATGCAA	740.316523128017	0.235413798883479
ATGACAAGGCAT	740.324019289535	0.304771400499848
TCTTAATTGTCA	740.33130495484	0.305436311824621
ATGACATTTTAC	740.332467596412	0.316413344747945
CAAGATAACTCA	740.344928384018	0.430014661260757
GGTTATCTGTCA	740.346937694515	0.451954603054017
AGCCCATATGAC	740.348158844957	0.221505410680854
ATGAGTATGAGA	740.35834554549	0.20326578494625
TAAAATGGGTCA	740.360603668708	0.42448537385347
CGGGCGGAGTCA	740.366272647663	0.233149008139459
ATGACAGACCGG	740.372784073807	0.469925306241993
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CAAGTTTATGAC	740.391481427566	0.49722135658765
GTGACACGCCAA	740.399626764017	0.27860325441364
ATACAACCTATC	740.401363731952	0.262406046875633
AGGTTCTATGAC	740.401742397081	0.370111568386913
AATGATTAATCG	740.404245025652	0.26729302380626
ATGTCATGCTGA	740.408201585112	0.341554623309921
ATGACGATCTCG	740.410494455002	0.190117540647604
TGAGCAAGTCAA	740.412631858956	0.1757232204963
CACTTAATGACG	740.422601640567	0.336655525497516
GTCACGAGTACA	740.427928255181	0.408550495880228
AGATATTTGTCA	740.431929045955	0.137351300186838
CATAGTGGTGAC	740.436523541943	0.254150460011728
TAATTGCTCAGA	740.450735646065	0.306491819780198
TCCGTAGCGTCA	740.490684918538	0.476229434933787
TAATAGTAATAA	740.517062701249	0.232886960425568
CTAGAGGACTCA	740.51812679386	0.369130973032372
GATGTGCATGAC	740.521657497748	0.426660268990529
AGTCAATCTTAG	740.545840392768	0.319956822722829
ATGACCGAACTA	740.552656181771	0.209810624876347
CGGACGTGACAC	740.558775116972	0.353841997092988
GATGACAGGGCA	740.559783291996	0.228105942444945
GTCACCTGTGAC	740.56015876255	0.370444231384947
CCCCACGAGTCA	740.562832920797	0.217607316591014
CACGTAATATTA	740.575592044056	0.380277350164035
AGATGAATAATA	740.578332312248	0.208388723778973
CCGCCACAGTCA	740.583695310281	0.400691986582523
CTCAATCAGTAA	740.584535249398	0.237558922714247
GCCCATAGTGAC	740.591606510417	0.479627291585753
ATGATGGGTGAC	740.593553773344	0.275426270098721
GTGTGACCCATA	740.602652067287	0.269594707244711
GTCACCCAGCGA	740.605768690577	0.368633460936723

GCTTCTTGGTCA	740.608459433261	0.359168501768876
GTCCTCCGATGA	740.616309469965	0.266371190565842
ATTAGGGTGACA	740.633161317409	0.199440413871392
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GAGGGTGACCCA	740.636785844125	0.176030012159584
GTCACCATGCAA	740.647345037193	0.30751222083473
TCATAGCGATGA	740.655328856629	0.39158120494024
GATGAATGACCA	740.664311269757	0.240706503576113
GTCATCTCCAAA	740.672176066376	0.296005609152011
ATGACGCCGTGG	740.691199261386	0.240133268848121
CATTGACATGAC	740.692915905496	0.288762753007816
ACGATGACCGCA	740.697782200996	0.294485141380344
CAGTCAGAAGAC	740.704283684027	0.176820931533929
AACTAATGACAA	740.704765760918	0.262143394508259
GAATACAATGAC	740.707800528961	0.348027929173493
AAACCTAATGAC	740.709238694712	0.343584816428617
ATACACGTGTCA	740.718067460598	0.4492352012389
AAGAGTTGTGAC	740.719668659679	0.238229363400598
ACGTCACGTAT	740.719683794835	0.364192784738301
GTCATCTCTCGA	740.729061624847	0.301424150542322
GCCGGAGAGTCA	740.730175494045	0.317715165339167
GTCATGCCGCGAA	740.73984553394	0.367083354356962
ATTACGGTGACC	740.749702787843	0.476395001014599
GGCTTGTGACCA	740.762231617278	0.405381971245795
ATTAGGTATAA	740.762801150997	0.363221263679458
AAATTTATGACC	740.762812227392	0.409021843272436
ACTGGCCAGTCA	740.773472236325	0.278555146556697
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GTCATTAGGCAC	740.788863785571	0.390757714285791
ACTCATAATTAC	740.789877114108	0.257563194212214
GTCACCACCTGA	740.793515782076	0.267557832154879
ACTCATGAGCAA	740.799434798449	0.348924216552083
ATGACAGAGGTA	740.8074399918	0.282907838874431
ACTAAGATGAGT	740.815434947297	0.227278437811596
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CAGTGGGATGAC	740.832785722328	0.218901822794326
ATCCGTGGTGAC	740.834074948331	0.309329279341396
CCTGCGAATGAC	740.837847829035	0.33589828430496
CCTCGCGGTGAC	740.851118394305	0.402470551072099
CACGTCACGTCC	740.852812127417	0.400586319958394
ATGATCTGTGAC	740.852961457105	0.476205310585986
TCTGGCTCATCA	740.856815437301	0.404111506592493
GTACGTTGACTA	740.857334664109	0.34122990479112
ATGCCTTATGAC	740.857555615083	0.316596018518735
ATCCATGACACC	740.889197065414	0.19330329010312
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ATTTCAAGTGAC	740.898281994157	0.31257093797446
GGGTCACAATAC	740.900407636742	0.345218492056918
CTGACTCGGTAC	740.913528089926	0.202673245464062
AGCTCTTATGAC	740.917169642459	0.349929521396901
AGTGAGTGTAC	740.922370937695	0.196863108239121
GTGAGTCTGTTA	740.924405235317	0.328633572080948
TCTGGATAGTCA	740.925408000285	0.45665835576159
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ATTAAATTACTC	740.940228239185	0.525946383655611
GTCATTTGCCCA	740.958189485095	0.281550340580125
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GCTAGTCACGAC	740.969258295485	0.239462622507686
GTCACTGCCGAA	740.993571114987	0.304046878754067
GTCACGCGGTAA	740.996554618551	0.407867328090916
GTAGTGCAGTCA	741.004928892471	0.241143056081768
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ATAGTTGTCACC	741.03343436157	0.28329132536429
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AGTTACGTGGCC	741.054579351968	0.303912599425177
GGAATTAAGTCA	741.05591805577	0.452172983536948
GACTAATCGAAC	741.060097732024	0.331337076240591
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ATGTGAGTATAC	741.095048827894	0.377233281491851
GACTAATTTGAA	741.095516447351	0.356484384156856
CACCACTGTGAC	741.096020959863	0.339218113581712
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GTCACAGGCAAC	741.107540147506	0.551607614095131
GAGTCAGGACAC	741.110047827597	0.245586197658769
CTTATAGTATGA	741.113824534568	0.296340438912638
GAAGACCGGTCA	741.123507954913	0.272859857211325
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TCTACTGACACA	741.130936970351	0.220777065862734
CACTCATCAGTG	741.131097617878	0.283743572382684
GCCCAGTGTGAC	741.148745508465	0.260364177761768
AACGGACGTCAT	741.151316057041	0.509615973317531
GTTACTCAGCAA	741.151840282657	0.216300380755958
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GACACTGTCACC	741.157979032846	0.319826900268046
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CGTCATTACAAA	741.176307658162	0.342534496550387
CGTCATTGAGAG	741.176521672576	0.31897977364785
ACTAGTTGAGTC	741.182211344317	0.282481999868056
ACCAGCGTGACG	741.184451339885	0.286116874036406
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GATTAGTGTGAC	741.205163931603	0.325356076218016
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ACTCATAAGCAG	741.226466051473	0.449930577675639
TGCGTCAAACCA	741.22745374666	0.354600737585245
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ATTAACGTGTCA	741.336724395085	0.421286204409099
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TACTTTGACACA	741.400161535897	0.277652368054777
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GTCACGTCCTAA	741.414321240199	0.387199693732583
TTAATTACGCCAA	741.419929067188	0.463297551748112
CCTTACAGTGAC	741.422609304993	0.30553915666172
GTCAGTGACAGA	741.425271905002	0.31129469739766
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TCGACCATGTCA	741.442004105285	0.232553363571385
ACACATATGAGT	741.44648425675	0.298639784824319
ACTGACATGACA	741.451643714359	0.326283289005777
GATGATGTGGCA	741.460387440752	0.228695671142708
TCAGCAATGACA	741.466613143305	0.42709564941807
CAGCTTGGTCAC	741.472499271721	0.346621950795369
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GTCACGTGGTAA	741.485028999241	0.372577576506262
CTCACGATGACC	741.493180484225	0.403644128801846
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ACACAATGACCA	741.498148390812	0.261979192274932
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GGTGTCAATGAC	741.545074264901	0.41840843309193
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AAGTCACCCGTG	741.841361642371	0.174926581245316
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CCTGTTGAATCA	741.847958258517	0.336775481057973
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ATGTTGCAGTCA	741.865311565872	0.320620173809968
ATGAATCTTATA	741.874825261544	0.283744104090225
CACTAGCATGAC	741.879339790963	0.519690846586151
AGCCACGTGTCA	741.896126087353	0.299016756571713
ATTTGCGTGACA	741.913948854456	0.29437089456915
GAGTAATAGTAA	741.918264012122	0.18268888089588
GTATATTTGTCA	741.920963265469	0.326885879077394
GACTAATAAACA	741.927913100098	0.303738503640244
ATACACGACTCA	741.935604551412	0.317414562089555
CGCGTCTGTCA	741.938193850074	0.305145406841926
GTTTCTCCGTCA	741.939622770967	0.387904820413532
ATGACGAGGCGC	741.940328677847	0.343064448895298
ATGACACTCAGC	741.941690017235	0.193243077978639
ATATGATACACA	741.944739247147	0.363149943241402
TGACGCTGAGAA	741.950528650696	0.368233734970613
TGACAACAACAA	741.97164208636	0.459209568087321
GCTGACAGTGAC	741.974009252701	0.260181190905667
GAGACGTGACAC	741.984701153921	0.299564975018527
CTCCGTGTGACA	741.985762068158	0.421554477732146
TGACATAACGCA	741.98724777783	0.272599458676075
ACCCGTGACTAG	741.988796331304	0.379837447514821
AGAGTCAAGGTG	741.989026382424	0.28530926055367
GGCAACCATGAC	741.989268448373	0.384060690207178
ATGACAAAGGGG	741.993065717161	0.249330553446479
CGGGCGGATGAC	741.998180779845	0.426229920364251
GCATGGAATGAC	742.000448965121	0.270988089684861
CCATACTCGTCA	742.002273392733	0.310082587117429

GTCACCTTAGCGA	742.020367872079	0.121482873019863
CAGACATGACGC	742.032873646853	0.465240304781143
GGATACTGTCAC	742.034946106601	0.214672403378951
CCCCTTTGACTC	742.035709077859	0.262762784520483
GTCACAGTGTTA	742.046271983907	0.223811438768476
GTATGTATCACA	742.047322873458	0.395566004461289
ACACATGACGCT	742.052410524878	0.3120916900555
AATGCATGACAT	742.067189330634	0.393724135400998
ATAGCATGTGAT	742.085811573017	0.14190062822026
AGTAATATGACC	742.086896140357	0.341265177038936
GGGTATTTGTCA	742.089738104629	0.279823638624049
CTGCATAATGAC	742.099727766077	0.306870892784012
CCGGTTATGTCA	742.099733860521	0.364635209694905
ACCAGAAATGAC	742.106493219591	0.402964285019787
GTCACAATGTTA	742.112814122795	0.414565835704822
AGACTCACGCTC	742.115649449251	0.207041992531237
ATACTCCAGTCA	742.126180555634	0.380389269217515
GTCACGACTCA	742.1323303467	0.29079513383024
GTCATAGGGATA	742.140732258252	0.14432664230592
TGACACGATAAA	742.142204633206	0.361832093503195
AAGAAATGTCAT	742.1424461138	0.201366609119447
ATGACCCTCTA	742.142554139601	0.154334519315525
GGGCATACGTCA	742.143725663094	0.400380616699609
CTGTTATTATGA	742.144395037025	0.319990755249416
TCGGTCATCCAA	742.146139316994	0.154480883914885
AAGTCACCCCTCA	742.151398904592	0.281541324133119
GGTGATCTGTCA	742.159740611547	0.448757437058714
ATTACTCGTATG	742.159791636502	0.230988832626846
ATCCAAAGTGAC	742.166133551747	0.368031559424217
GATTCATGTGAC	742.18026265709	0.299565565153766
AATATGCGTGAC	742.194867419759	0.286467429076413
AATCTTACTAAT	742.195285035585	0.359126363212318
CGGCAGATGACA	742.203469293158	0.203270771620999
GAGTCTACGCCAA	742.210251194984	0.290824088695574
GCAACTTGTGAC	742.216627597939	0.389204550890641
CGTCATTGGGAG	742.219070184049	0.193263456649745
CCTAGCATGACG	742.219599663372	0.27861260605941
CGCCTCTATGAC	742.226942765245	0.35211099075207
GTCATTCAAAGA	742.229777002666	0.384189564193043
ATACCGTGACAC	742.231044800886	0.177606231714388
CGAAATGTCATC	742.231634549909	0.24231707660119
GTGATACATTCA	742.235082142956	0.349912976479129
GGCCGTGTGTCA	742.237398888309	0.306436369021421
AATGACATTGCT	742.237745477208	0.283971479339352
CGTTAGTCTGAC	742.242289353543	0.344505537016838
ACGTCACCCAAA	742.243713876854	0.321517683235267
GTCATGGTTATA	742.248811851993	0.451623106989683
GTCACCCTCTTA	742.250740563478	0.317726845575997
ATCCTCCGTCAT	742.254023432322	0.284177647479953
CAGCCTGACACA	742.254042713838	0.322514723554577
AAAATATGTCAG	742.258032830371	0.289412875692416
ACTGAGAGTCAG	742.261088553765	0.206830132220533
CTCCCATATGAC	742.268863498073	0.371755714302529
ATGCGTGAGTCG	742.283240481357	0.312115180470402

AATAGTCAAATG	742.291473916776	0.332720816900492
ATGAATCAACGC	742.304180853749	0.373068078693348
CACGCTAAATGA	742.310097258735	0.219072378563469
AAGAACACGTAA	742.310888918825	0.310132534098508
AATGACCGAATA	742.318887499142	0.162770985288669
CGATGGACTCAC	742.326077294379	0.300401149009561
GACCTAGACTCA	742.340652522282	0.227553138143925
CAACCGTGTAC	742.342759648912	0.308627561828879
ATCTAAAATGAC	742.343153418971	0.203304274113633
CATGGTGTGACG	742.358998075949	0.371297535170422
TCAAAGTAGTCA	742.362959525819	0.499306040700712
AGCCTTGTGACA	742.366502952078	0.187321402480913
GCGTCATGGTTA	742.3673523828	0.0945433740037823
ATAGCGTGTGAC	742.374257279294	0.418382694541715
CCCCAGATGACA	742.375898157099	0.208204793261382
GTACCTGACGCA	742.382362940597	0.211956098252628
AATCGCTGACTG	742.39529002643	0.354068611998594
TCATCAGAGACA	742.407881420612	0.294715106510595
GATTTGACTCGA	742.418840754351	0.279540706254103
ACGTCACAGTGA	742.421177031818	0.299164283492548
AGGTCTAATGAC	742.427075206405	0.382630886445525
TCTGGACAGTCA	742.427458493625	0.264674127209807
ATGATTATGTCA	742.432744333417	0.479915241136868
CGAATCTCTGAC	742.446218972054	0.419153181138116
GACTAATTACAA	742.448466028645	0.393913864410778
AGGTGCAATGAC	742.461635132917	0.223360203449224
GTGACCCGTAC	742.468206740629	0.214250828919872
ATCACGGTGA	742.480725666447	0.289241899090937
ATACCTGATTCA	742.485178688842	0.188999182110673
ATTGAGTCTATC	742.496750721081	0.241482610776746
AGTCAATGACG	742.498058511622	0.26707885798952
CCACGTCTATGA	742.506526959183	0.296526215097765
AACCCGACGTCA	742.5084081421	0.330354860119866
CTCCGGCGTGAC	742.51272312342	0.393914294112751
GAACCCGTCACA	742.518977953157	0.334420729562029
GTCCGGTAGTCA	742.537819551735	0.221315187142831
GTCACGTAAGAA	742.541989670552	0.275455012923099
AAGCCTTGTGAC	742.546332647412	0.297146859440295
GTCATAGATGCA	742.548491987561	0.385316688011942
GACCACAATGAC	742.565955571334	0.3937477998081
GTCACCGTTCTA	742.578598210787	0.33648509193829
CAGTCTGACCCA	742.580511522373	0.362018762899473
CTATTTACGTCA	742.585170731889	0.2811056476395
CGTGGCTGTGAC	742.586080703627	0.376039076762464
TGTCACCAGACA	742.59922753291	0.318165961853933
CTGGACATGTCA	742.599726518981	0.546350032355742
GTCACAACGTGA	742.600726218764	0.26772884354141
ATGACCTGACTA	742.605994714893	0.189497790449965
GACTGATTTACA	742.612468492051	0.320150533707786
CAGGATCACTCA	742.627972181887	0.22469182384661
AGTCAGAGTTCC	742.63051030999	0.203928103072529
CGTCATTGGCCA	742.636869074078	0.226134641178738
CGCGTAAGTGAC	742.641191131561	0.39890623357766
CTGGTGACAGCA	742.641614733975	0.22462862397752

GATGACTTGTC	742.647208239541	0.207908146085633
AGTCACTCCGCC	742.655778232225	0.215433686901679
CGCTGAAGTGAC	742.662125771651	0.374759783787204
CATACGCAGTCA	742.6691446189	0.303397445198691
AGAAATGGGTCA	742.671643164021	0.211147002988033
GTA CT CATGCTA	742.677911556773	0.208439980191247
CCACCGTGAGTC	742.680265228748	0.428787283247894
CACATGACAATG	742.686929748598	0.411553381591054
ATAGGTCACACA	742.692533433801	0.328033516028573
TGACTGGAACCA	742.69754097733	0.413382627191101
CAGTGATTACTC	742.697697862628	0.396011698818824
ATTCTGAGTCTA	742.706460177139	0.302740699559945
GTCATATTGGCA	742.706549473406	0.169150934522627
ATTACTATTATG	742.719965389078	0.197418161601043
ACCATGTGACGA	742.722997011201	0.263596827708831
GTCACCGAGTTA	742.730291271031	0.329371020738165
AGTCAGCATATG	742.735899775359	0.404949722449102
AATTACTGTCAT	742.742222732727	0.299936983697644
GTCATTCACATA	742.746068993518	0.221277193007588
CGTCATTCCGCA	742.747113799651	0.380238295312792
AATTATGACCCC	742.747328097463	0.207760308072379
ATACAGTCAGTA	742.752103932195	0.183007689805352
GGTCTAAATGAC	742.752932168178	0.414981938476751
GCTGACACTTTA	742.758086593802	0.176334447308775
GAATCGCATGAC	742.762570327837	0.374581791748427
GCTTGTCGTGAC	742.76635787119	0.55452709348633
CAGAAATGTGAC	742.77351580896	0.272217248478348
ATGCGACTCAGA	742.775061255034	0.29935069912227
GGGTCGGATGAC	742.776641913266	0.211236009238028
GCTGAGTGTGAC	742.781345101253	0.321667695664023
AAAAGATGACCA	742.783309685963	0.363854624798272
GGACGTGGTGAC	742.787511530694	0.229002920250276
GCTCAGTCAACA	742.789349200927	0.217413484541145
GTCACCTGCGAA	742.790028241178	0.380622794885129
CATCAATGACGG	742.793466355869	0.426780890701289
AGTGATTAATTC	742.802174826223	0.228084595948504
CAAGCCTGTGAC	742.810235342085	0.333139612274233
ATTTAATGACG	742.816031198283	0.560114746852886
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AGAGACAATGAC	742.820606296538	0.276919167730763
ACGTGCGTAATC	742.824360625249	0.314456615115762
GAGTTTGC GTCA	742.826010412972	0.395018215181766
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ACGCTTTGTCAT	742.84080980817	0.24856878098434
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GAGTCAAAGTGC	742.905647083056	0.339415853841007
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AGTCAGAAGCTC	742.909461972645	0.471678532523616
ACACTGCGTCAG	742.914302851207	0.284918110115735
TGGAAATGACAA	742.917307244699	0.373673918166648
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ACTGCCGCGTCA	742.934949049435	0.176656583054463
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GGTCATTACCAA	742.982838100315	0.434339765565862
CCTAGCAATGAC	742.991335779034	0.382837431088009
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ATAGCAAGTCAT	743.010565759292	0.555679533371105
AATACGTGTCAG	743.018883008115	0.278459289525227
CAGACGGAGTCA	743.019554740984	0.302476267085444
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GGGAATCATGAC	743.040927222429	0.163916511480986
GGACACGAGTCA	743.042549094542	0.313089231684803
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CATAGCCATGAC	743.050482316166	0.422964706926349
CTCATGCTATGA	743.051120371456	0.424334666799963
CCTTTGAGTAAC	743.053125189948	0.373870821470545
GTCGATCTGTCA	743.0576265574	0.24679811313766
GTCACTGTAATA	743.063190220503	0.27152518977543
TCAGAATGGTCA	743.065935530826	0.383203758982045
GACAAATCATCA	743.074756872426	0.406982366621888
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GTCACAATCAAC	743.080720280224	0.370299429881649
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CGTCATTGGTAG	743.103936739382	0.234097601581551
CGACATTGTGAC	743.107302761659	0.367367404849346
GGCAGAAATGAC	743.109454043554	0.378484682249304
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TCCTCCTAGTCA	743.161034959796	0.166779678170784
ATGATATACTCA	743.167301111943	0.274200959140682
GTAGCAATGACA	743.198096529848	0.332695470986383
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GACGGGAATGAC	743.210590238492	0.2215445223623
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CATTTATTAGTC	743.217630119446	0.260490996628339
CAGTCAGAATTA	743.220642495998	0.387341301969164
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GAGAATATGTCA	743.265529176724	0.204119466486347
GTCACAGGGTAA	743.269144846777	0.423897354384628
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AACTTGTCACTG	743.284646736706	0.385299152863126
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ATTACTTTGTCA	743.323839999941	0.311255200006454
GTCATTTACCTA	743.338243314907	0.230257157562097
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GCGTCATGCTGA	743.351763695706	0.249431556958144
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CGTCATCCCGGA	743.401035181683	0.303689996477201
CTGTGATAGTCA	743.404257929115	0.27584583538375
CACAGTGACCCA	743.414062081472	0.375783946649869
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GCCGCGGGTGAC	743.426807113921	0.420960843710223
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CTGGACCGTGAC	743.440552460237	0.374488653817964
ACTTCGAGTCA	743.447124858382	0.428259299114184
TATACTGATTCA	743.447143305515	0.285689469407511
GGGCTTGATGAC	743.46048198019	0.344067905407205
GTCATAAGGGGA	743.463569468839	0.208968127114138
TCGAACAAGTCA	743.4742619347	0.294018427840733

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GGTTGCGAGTCA	743.476131876688	0.287643004555515
GGTACCCGTGAC	743.485665885815	0.384789301226465
AATCCGGGTGAC	743.490507063246	0.356631043436966
TGACAATTCGAA	743.49636515305	0.335510035854243
CAAAGGGAGTCA	743.500364183151	0.208501791535383
GAGGCTGACACA	743.50092884772	0.367247580814499
CCATCGGTGACA	743.505675564075	0.389254147727204
CGACTTGTCAAC	743.506461742333	0.277749913682357
AAAATAGTGTCA	743.519737800303	0.385762322356052
CCGGTTTCGTCA	743.522578493389	0.378677315188707
CGCTTGTGACCA	743.524382865832	0.580824723860844
CCACGTGTCTGA	743.531425764164	0.458302536836086
AAACAATCAGTC	743.53255489306	0.403316366877503
GTCATTTAGCTA	743.541392665758	0.197802841560165
GTGTAACAGTCA	743.544978076815	0.25904802949021
AATCCGTGACAC	743.568200931817	0.323396741530354
CATGACAGTATA	743.57041931025	0.357713932206699
AGCCTGGAGTCA	743.571235172294	0.526548282414259
ATAAGTGACGCG	743.572158742803	0.31993985494796
AGTGTGAGAATC	743.580447392335	0.29202224487918
TGAGTCGTTGCA	743.58656110104	0.396754261142007
CGTCACAGGTTA	743.588474929755	0.286229187938783
CGATCCATGACA	743.596006352637	0.31020352554782
ACGTCACGCACT	743.596117108503	0.466578124266996
GTCATCTCCATA	743.597017639149	0.395326912611675
GTCACAATCACA	743.604981568149	0.365364062291794
ACGAACGCGTCA	743.605336013675	0.470439816707282
ACTATGCATGAC	743.608403423736	0.470396450492192
GTGTCACGTGTA	743.612993421137	0.38969202664182
GTTTACTAGTCA	743.620759706887	0.328176687925971
CTACATTGCTCA	743.635095650425	0.261114485354642
GTCACACCGTAA	743.639766227757	0.36001026330213
GTCACGAACATA	743.640838832864	0.540276758453185
AGCGTATATGAC	743.647032804575	0.268645361726966
CTCATCACGTCA	743.648801259197	0.242014148445374
GTCATATCCAC	743.65108359814	0.334435299831852
CTATGTTTGCTA	743.660336407981	0.278221835319337
TCACAGAGTCAA	743.67321913097	0.290940812663976
ACGTCAGAGTAA	743.677506604993	0.365707156844983
CACCTATGTGAC	743.68136205867	0.332229648970977
CATGTGTGACCA	743.683635462903	0.243595778071454
AATGACATCTTG	743.683985997298	0.404759692698475
ACTCATTGAGCG	743.687634211414	0.453639202804349
GAGTCTTGCGAC	743.695764127242	0.412668484800939
TGAGCAAATACA	743.702583870358	0.251464176317211
AGCCCCATGACT	743.70261554563	0.283466214239761
GAGTCGTAGTCA	743.712585966056	0.131721855945339
ACAAAGCGTGAC	743.71381490026	0.45237410173952
CTGCCTGAATCA	743.714098732281	0.272671748471498
ACCACTGGTGAC	743.717163913679	0.339618486907571
GGGATAGATGAC	743.732820412895	0.295927242418448
GACGGGTGATCC	743.734264432707	0.304168656064985
CACGTCAATGAG	743.750787412387	0.36524808346392

GCGATCTGACAC	743.757896020668	0.149502794837674
AGAGTAATTCTA	743.761371909753	0.198567866284772
ACGAATCTGTCA	743.771755281264	0.353205198969343
CGCTCGGTGACG	743.773324717463	0.280535240594525
GATGACAGGCAC	743.779652320787	0.273975416735262
ATACTCTGTAC	743.781319153286	0.2779958100871
GTCACGACCGGA	743.783551947707	0.372867669807148
ATGACGCCTAAC	743.79397910094	0.284141174608422
ATATCGTACGG	743.809304992098	0.243274127045349
ACTCATACATCG	743.814362871783	0.279900238814339
TAGTGCTAGTCA	743.815584364395	0.439571290546775
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CGTCGGTGACGA	743.82515647197	0.320976366515161
CAGCTGCATGAC	743.826016311474	0.342028409727615
ACCTTGACTCGA	743.828465918957	0.279502627736162
ATTACATGTGAC	743.830836100313	0.302042568844374
GACGTTGACTAC	743.844008764963	0.386788324842204
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AGCACGGAGTCA	743.863411690909	0.352361446122338
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CTCCCATGACAC	743.88048015923	0.203701477267066
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AGCCAATTAGTC	743.916551950333	0.454520109267544
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AAACTTCTGACG	743.920743285941	0.213295247685299
CTGAGTCGTCCA	743.927198003303	0.31283460794183
AATGACGGTACA	743.931415000571	0.393100917617388
AGAAACGCGTCA	743.938109170045	0.370345318173908
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ACTCAAAGTGAC	743.988744726866	0.414298047642247
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GTTGACACTTAA	743.993264930532	0.408373898124889
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AAACGTGACGAA	744.008956346071	0.26917802065031
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CCTCAGTGTATGA	744.021928715947	0.564283840542546
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GGGTCATATTAA	744.039804464803	0.309564679028425
ACTCATCCTTAG	744.047539186076	0.234195183289168
ATATTTAGTAAAT	744.059432131905	0.330125149819329
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GACGTCACCTTA	744.061901336303	0.207939295003163
GCTCCATATGAC	744.070231025351	0.326685246640736
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AAGCCTGTGACG	744.081321513132	0.255504219154099
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GTGTCACGTCCA	744.089669864961	0.281824882792956
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CCTGCAGACTCA	744.105199982429	0.271942138506602
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ACTTTTGAATCA	744.111782558025	0.334689264870598
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GAGTCAAATTC	744.12244892041	0.29245445518632
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ACGTCACAGGTA	744.132431222628	0.306332206618222
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GTCACATTCGAA	744.152207360016	0.302149817026503
ATGACAGTAAGC	744.152468798785	0.22867120989817
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GTCATGCAGCCA	744.160149133722	0.439899133761813
GGAGATTGGTCA	744.175165853597	0.289718389900061
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AGTGAATCAACT	744.197263597587	0.357413071126768
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CATTGTTGCTCA	744.351307259528	0.348721372168414

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GTCATCCCTCAA	744.390942876751	0.210833935727603
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CAGAATTACACA	744.400337054982	0.404452980808277
CTGACTCGCAAA	744.423154407386	0.293600772188415
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ACAGATTACGCA	745.313887385435	0.187926483650348
CGTCATTCTGCC	745.315361930415	0.329699344172688
GGCCCGTGACAC	745.316530059996	0.241172579455506
TGCATCGTGACA	745.325981829508	0.252837374690216
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GTCACAAATAAC	745.336579675831	0.193254042987806
ATTGGGATGACG	745.336669104106	0.203454036850793
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CGTCATTGTCTA	745.353997305776	0.28138137283455
GCGAATGACCAC	745.373572763309	0.310043692468743
ATTAATCACACA	745.379854278193	0.291724094142484
CGTCATGTTTAG	745.380440130062	0.279079640069663
ATGGACTATGAC	745.386182389273	0.167250461489484
ATAAAACATGAC	745.386803802397	0.37788654406788
GACGCTTTGTCA	745.386826640836	0.4760886443103
CGTCACATCAGA	745.388235629802	0.341208993257467
GGTTACCATGAC	745.394451254848	0.337161414235626
CCCGGATGACCA	745.402491316979	0.37423148497058
GAGCCTATGACC	745.407680512713	0.330374025631473
GTCATTCGGCAC	745.424167779224	0.403995667764881
GCATTTGCTCAC	745.436281073548	0.198544609734886
ATGATATCGTCA	745.437270007368	0.398410599201572
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AGCGATTGGTCA	745.457544427679	0.268589628984014
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GCAAGTCTGACA	745.466431668235	0.367013269110011
GACATCACATGA	745.47447291063	0.329332441075845
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GTCATAAGGAGA	745.496051687937	0.211008693340321
CGTCATTACCCA	745.498197475635	0.334155096598845
GTCACAACCTTA	745.498903203381	0.354834615944436
CGTCATTTGACA	745.500764997536	0.286304629603471
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AAAACCTTGGTCA	745.537356212797	0.446445551437142
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CGCACTCTATGA	747.084182282354	0.386142803784311
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GTCATTATGGAA	747.104453033917	0.288703200334684
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CTAATGTGACGA	747.133227526464	0.131586662852152
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GTCACAGATTTA	747.13785932753	0.298754586316467
AAGCTTCGTGAC	747.138706249865	0.315505760577957
CGTTCGGTCACA	747.139793197707	0.504964440245126
TCATATAATGAA	747.141566045201	0.456703251895897
CACGTCACGTGC	747.143374344564	0.261656848596649
CCGCTGATATGA	747.178241993231	0.511581827800076
AATAGTCAATAT	747.186452358607	0.273943589901207
ACTCATACTCCG	747.187312016943	0.194706284298873
CATCGTATTACG	747.189083842777	0.612399058588265
TGAGTATAACCA	747.192910267123	0.356189296945336
CTGACTCGCATC	747.197983173532	0.257377771822179
CGACTGGTGACA	747.201412649067	0.647346269853642
CCTTAGAGTGAC	747.216214494676	0.388139570530919
CAATTGGCGTCA	747.217772378352	0.349147059219726
GCACAGTCAGCC	747.223255014906	0.29690131949614
CGCACTGTCATC	747.225794777088	0.151556898073468
ACTTAGTGTGAC	747.227146537232	0.31602713184767
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ACATTCCAGTCA	747.242674649657	0.274063281833194
ATTCACTCATTC	747.250497917957	0.266005693655887
TCGTGACACTCA	747.25583862965	0.398214264791476
GACTAATCCCTA	747.25737381328	0.281111561403436
ATTGCGTAATTA	747.262408745842	0.259647539998588
GTGTCACGTTTA	747.263925920454	0.327502899420885
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TACTCGGTGACA	747.290156005988	0.301670863320956
CAGAGAGTGACA	747.300983152104	0.335096073969982
ACTCATAACGTA	747.301482284157	0.303407740955067
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ATAGATTCTGAC	747.30924428289	0.385845593405988
AAATACAGTCAG	747.311050659191	0.246398641625174
ATGTTGCTCACA	747.31313535268	0.301977605207225
GTCATTAATTCA	747.313536365038	0.357295043915215
CTTATTAATGAC	747.320401725035	0.348226123695436
CAGACATGTGAC	747.326940662186	0.325341355326528
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GTCATGAGCAAC	747.333894133793	0.435954113555879
ATTGCATCACCA	747.338017821011	0.303916648570458
GTCATATCCTTA	747.343052511881	0.321843626429058
GCTTGCTGACTA	747.348657751837	0.397421773179872
TTAACTGAGTAA	747.351152416299	0.461282088775261
GTGCGTGACAGA	747.353239284555	0.309451278014047

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ACTCAAATGACG	747.359721812934	0.313992175127198
CGATAGAGTGAC	747.36749648353	0.270324459703544
ACCAGCCAGTCA	747.36833256944	0.297942438394662
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GTCACCACCCTA	747.377151073468	0.28143780496765
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CCGTACATGTCA	747.394496107997	0.24035355978877
AGAAATCATGAC	747.419883517959	0.293500875580376
ACTCGGTACATCG	747.4208957677	0.299035115231339
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ATACTTGTCAAC	747.517123009667	0.283334357653229
ACACTATATGAC	747.517561458383	0.433499068054668
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AAGCATACGTCA	747.56441971687	0.253657965040544
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GAGCTATGACCC	747.594762337343	0.307172614135741
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CCAATTACGCAA	747.660486629918	0.441137802213155
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GTCATGTCGAGA	747.67229713278	0.273446596768456
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GCGACGGATGAC	747.690041206793	0.479579236013123
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GTCACATCTTCA	747.744646518751	0.321352235280423
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GTCATAAACACA	748.311996287546	0.24532439103411
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ATGACCACGCGAG	748.721522091868	0.362237084896768
AGGCTGTACTCA	748.72443817963	0.402762942027392

GTCACCCGGGTA	748.728091300187	0.306822992607858
GTCATGAATCCA	748.728146668773	0.21361049417037
GTCACGATGGCA	748.72874639747	0.230965294216201
GTGACGTGCTGA	748.744556626493	0.37578504492946
AGTAGTACTCAC	748.750270166832	0.317935826716533
GTCACTACGAGA	748.751540581244	0.417288559998521
AGGACCCGTCAC	748.752598943607	0.43946579944404
CCAGAGGGTGAC	748.755024825507	0.268585140247474
GCACGTCACTGA	748.755279943509	0.375087511161319
GAGTAATTTTCC	748.760906753927	0.253115931702057
ATCATGTTGTCA	748.775284238593	0.447818429263143
ATGACGGCATCC	748.776806645662	0.480251623731974
ACTCATAAGTAG	748.780523169547	0.353559819832759
GGCCCGTACTA	748.781993599845	0.278287861383446
CTGTCCGTGTCA	748.804557151491	0.302005309534409
TGACGCGGTTAA	748.814926072401	0.11118114975393
ATTACTGAACAA	748.814926707104	0.379556161192406
GTCACATAAGGA	748.82514693843	0.348036592044077
GAACTCTGTGAC	748.82864683358	0.371916909563202
AGCCAGGTCATA	748.834704690624	0.263146240925647
TGTCACAGGACA	748.853073834049	0.396678050332053
TCATCATAGGGA	748.869601981783	0.356202635291428
CATAGCGACTCA	748.872394654986	0.294799497896959
GTTGAAATGACA	748.880901064114	0.238278211920039
ATGACGAGAGCA	748.884223185126	0.222010908500654
CACGTCAGACCA	748.886532301449	0.342624737121678
TGACGGAGTCAA	748.892061002595	0.307911348719147
ACCTCGTGTGAC	748.898119363438	0.332805640653364
GAATTCTGACAC	748.903054865181	0.350626211988764
GTATCTGGTGTGAC	748.906004664647	0.279590403971223
GCGATTGGTGTGAC	748.911373857629	0.350199643316473
AGATTGCATCAC	748.913364348851	0.289765206686106
AATTAGTCGGTC	748.915079258663	0.415594645380995
ATTCTGTGACATA	748.929779784008	0.307087713156097
AGACTGAGTGTGAC	748.93093289961	0.317380369643707
ACAGGAGATGAC	748.931284718742	0.262375041010114
GTCATCTCTTAA	748.932483904986	0.339806633720252
AACGTCATGTCA	748.933014440548	0.340653279224155
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GCAGAAGGTGAC	748.949870275624	0.339920106646738
TACTATTTATGA	748.958632830419	0.359544171829586
AGCATTATGTCA	748.96069973446	0.270457408444341
GAGTCAAATTTA	748.963288127191	0.196565607797833
ATGACAGGAACC	748.964135976911	0.265014223414779
CTACCCTGACTC	748.969582718654	0.235054859770979
GCAATTACGCAA	748.971874556957	0.296001941073217
CAGCTTCATGAC	748.973519839833	0.471939319945847
GATTCGTGTAC	748.973980139985	0.271299329253283
GCATCCGCGTCA	748.975160904077	0.220729196395711
ATGACTTGCGTG	748.97572425267	0.268584878883488
ATACGTCAACGG	748.978001414425	0.287007162159408
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CTAGCATAGTCA	749.021159430641	0.371344486299892
AGAGTTGACTGA	749.022337044788	0.228812370557176
TCTGTGGTGTCA	749.024788075268	0.349733678696487
GACTTATTACAA	749.025074145737	0.432047764264499
GGGTGTGACCAC	749.028502122552	0.36496572539096
GACAGCTGAGTC	749.030693143773	0.280017117437593
TCAGTAACGTCA	749.047959985466	0.182774977773551
TGTCATGAAGAA	749.063699432953	0.275598431145745
TCCTTTACGTCA	749.065340745588	0.180893640559529
GAACGGAATGAC	749.066089062648	0.168643991272956
GATCCGTGACTA	749.068525757479	0.177427683347845
GAGTCAAATCGA	749.073558798618	0.237011878433305
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CGCCAAATGACG	749.091883191515	0.304153562234345
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ACTACAGTGTCA	749.108314965564	0.375498245763652
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ACCACAATGACG	749.111371261828	0.21081800791317
ACTTTTAGTGAC	749.114387319919	0.312639572917691
ACCATTCATGAC	749.115462936313	0.269586596332341
CTTAAGTGTGAC	749.124244680789	0.32098903326257
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GTCATTTGGGAC	749.152500868674	0.267994177972918
ATATGAGTGCCA	749.16543416003	0.484075434525268
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AACCATAATGAC	749.17496686227	0.493291759276417
ATGACTTCGTCG	749.175535643067	0.37648210418404
AGACGCGTCAGA	749.187962507724	0.295340391281276
AGAGTAATAGCA	749.201871600702	0.287311215405406
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CATGCGGTCATA	749.222750485109	0.296800250641019
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CACGCATGACGC	749.244634521536	0.304481038958921
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GACTAATTATAA	749.255691144923	0.563479800889801
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ATGACATTGTTA	749.315639295871	0.353830155498878
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ATGAGGCATGAC	750.491472602362	0.236608514874466
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ATCCTAGTGTCA	750.504151664868	0.292168020902291
GATGTGTCGTCA	750.505733184563	0.467644130303447
CAACAGTGACGA	750.514755148117	0.263737180633564
CGACTTTACTCA	750.519779473127	0.297971106125931
GATGTATGTGAC	750.519931754294	0.339475128516365
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ACTCATACTAAC	750.522565996349	0.23587357138739
TGAGCCATGACA	750.528541086608	0.360948521154285

GAGTAATCATAA	750.529338589767	0.284759388863774
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GTGACGTGCAAA	750.560045813329	0.255992759082135
ATCAGTGGGTCA	750.560801903257	0.310032662621928
CACGCAATGACA	750.562160849367	0.251587730850931
AAAACCTTGCTCA	750.565819850111	0.355063510001282
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GACAAATTAGTC	750.576886332844	0.315488022230118
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CGTCACATTACA	750.617733322613	0.273674757370559
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GACATAGTGTCA	752.278305544173	0.263669622697427
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GAAC TTGGTGAC	753.749018268574	0.31875701607898
CAAGTTTGTAC	753.753684765748	0.310060687869216
CCTCAGACTCAC	753.754812498439	0.222207564353746
AAACGCGTAATC	753.759923367566	0.439851098409634
GCAGAAATGACA	753.760981165852	0.239721940823077

CCTGTCGCGTCA	753.762441025241	0.284476845547067
AGTCAGGTGACA	753.763186622881	0.269151958297754
ACTGGGGATGAC	753.764389145967	0.294721194462473
GACTTCCAGTCA	753.771845072449	0.417044283917321
CGGGTTCTGTCA	753.775411647925	0.448889223130645
GTCATTCCACAC	753.784878078034	0.208082481556358
AAGACTGATTAT	753.78978531078	0.349012309716217
AAGGGTATGACC	753.793027814468	0.25906385698073
AAGACTCTTAAT	753.796544603469	0.197414553560177
TGAGTCCACGAA	753.801570548808	0.321307155555435
CCAATATGTGAC	753.801625250247	0.270765318688959
AGTGACCGGATG	753.816454254339	0.198399403985426
GAATCATACATC	753.818982419004	0.380388133937975
CCGTCATTTGAG	753.823770083273	0.419070694315815
GTCACCTCGCAA	753.833745360073	0.303286249468582
TCTGTCTAGTCA	753.840967047034	0.272588025815943
CGTCAGACGTAC	753.845127504964	0.281676511443535
AAATGACATTAT	753.845233029636	0.323448042569373
CATGTTTGTGAC	753.852813488119	0.248314471921052
GTCACAACACAC	753.857413281216	0.268073566150572
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GCACTCTAGTCA	753.876737434546	0.253295044387049
GGGTCATAGCGA	753.886369472777	0.310038313440771
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CGTCATTTACGC	753.892252990853	0.427713547816783
CTTAAATCGTCA	753.904633789735	0.430334837852607
GTGCTTACGTAA	753.912371997868	0.259452569786915
ACTCACCATGAC	753.912629850738	0.371228903277973
TGTCATCTCACA	753.916394882404	0.189588681135501
GTCACGTTTAAA	753.916605240949	0.474917561545021
ATGAGCCAAACGC	753.919593268371	0.299924470339532
AAACGTGACACC	753.942133681619	0.28807563894146
AGAGTCAAGCTC	753.943342556175	0.452299931823087
GTAGCTTGTGAC	753.944697817646	0.329466699242557
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TCACCCCAGTCA	753.953916030949	0.276828250786423
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GTCACCGGACTA	754.26001638911	0.156337073995911
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GTCACCTCGGGA	754.411619910271	0.480030024901175
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AAGTTCCGGTCAT	755.468146807707	0.273087597670273
CCCTTTGTGACA	755.473227595535	0.312897016932116
ATGGCTGATGAC	755.474333989502	0.29908387540647
AGTCAGAAGTAG	755.474822091041	0.183144242009008

CTAGTCACGGGA	755.482679307922	0.276866733450019
ACGACCATGACG	755.485655363914	0.298759050621828
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GTCATTCCAATA	755.491227386703	0.34747277240032
GTGACGTGCGCA	755.494165061313	0.294625445705885
CTGACGAAGTCA	755.49794337917	0.299206007147401
TGCGTCGCACA	755.498652385602	0.30715537315321
AGATACGTAATC	755.498798098355	0.348932247512771
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CGTAAGAGTGAC	755.516319710581	0.294554654474145
CAGTGGATGACC	755.516495952913	0.422358609703342
GTCACACTCAAA	755.517721377364	0.317333165713051
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CACGTATGATTC	755.546951963841	0.304615162052122
ACCAGCGACTCA	755.547430360963	0.343124690674719
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AAGCGTGACGCT	755.555530526026	0.40386236213317
GACCTCGTCACA	755.561602977551	0.30302732860307
GAGAACGACTCA	755.564923769478	0.367021033323322
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CGTCATCCCTA	755.604587887852	0.145468370783858
TGAGTCTAGACA	755.606955746825	0.314193165311585
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GTCACCTGCTTA	755.931997056225	0.342767131342238
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GTC AACCTGTCA	756.037250682349	0.195942493019237
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ACTAATCGAGTC	757.044768578295	0.453904968349643
GTCACGACGTGA	757.049139187811	0.535788258246347
TATGACAGTCCA	757.051922306036	0.148617570345389

AGGAGGCGTCAT	757.056942950713	0.184066376585339
GATGACATTAAC	757.057920213762	0.321065070512706
CGAATAGTGTCA	757.066646771012	0.291633303126236
CCGTCACCGTCA	757.069282786501	0.283258310018756
AGACCAACTCAT	757.070093291502	0.150514606760836
CGTCATGCAGGC	757.076765931518	0.328504287696732
CACCAATGAGTA	757.078996554079	0.294467369621533
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AGTCAGAATATG	757.09050345566	0.368538325393405
AATGAGCTGTTC	757.093273384246	0.363706124244864
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GCACATACGTCA	757.100609881355	0.292524979026338
ACGCTAATTAGT	757.108359425689	0.455481497462353
GCAATTGACTGA	757.112632471787	0.472280788817316
ACGAACTCTGAC	757.11363628203	0.400405733933042
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TAGCGGTGACCA	757.121994008021	0.173386429110992
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TCGTCGCGGTCA	757.166851834657	0.234781119508533
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GATCCTGCGTCA	757.181564777038	0.357699589850694
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CTAAGACTGATC	757.195843406456	0.134542497262402
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ACTCAAGCGTCA	757.527328386311	0.259641733671804
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GAATAGTAGTCA	757.682743338456	0.221528695131276
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ATCCGAAGTCAT	758.037341832853	0.321825017670041
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CACATCATGACG	758.104246487346	0.252774030625616
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CAGAGTATGTCA	758.633860140478	0.304414769801767
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ATGTTACGTGGC	758.657495823234	0.28145287831104
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ATGACGGGGCCG	758.681303033694	0.264516487192518
GGGTCACCCCTTA	758.684356585969	0.271633365843981
ACTTCGGTGACG	758.68570535462	0.350979985251173
ACGCAGACTCAC	758.688129800473	0.276792004519984
GTCATGGCCGAA	758.694334466855	0.354736289054633
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GTCACCTCAATA	758.701434592115	0.370833014322752
ACAGAAGTGTCA	758.714538201969	0.448356435075747
AAATTCCATGAC	758.717919071079	0.218944039171258
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GAAATATGTGAC	758.721829799571	0.468305276226481
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GTCATCCAAAAC	760.331484785528	0.459477905028442
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ATCGCCAATGAC	760.357081202244	0.395086002404953
GAGTCAAACCTTA	760.363017516985	0.462174272080347
ATGATATGTGAC	760.365552885285	0.379882744778415
ACTCTGACGCGA	760.366651036782	0.255730764613322
AGGGTAATGACG	760.368751202996	0.247945529704274
GTCATTGATCCA	760.372196969391	0.347710673231888
AGTTAGATGACG	760.3751201287	0.215478456360929
CGACCGTACTA	760.379924530049	0.215678113848395
CGTATACGTGAC	760.386690270024	0.257266284967521
AACTTTGGTGAC	760.386953777701	0.495930295942287
CAGCCGACTCAC	760.387462716948	0.211930767785669
CAACCTGTCACA	760.392355025021	0.201806801168551
ATGACCCGTACG	760.392597582297	0.219972964275302
GAGTGACAAACC	760.394349740568	0.279715123478905
CTTGGCTAGTCA	760.397863875002	0.376254460777086
GCGTCATGGGAC	760.398801036972	0.253216319001417
CGTCATTGCGCA	760.401302104496	0.333404472385762
AGACGGGTACATA	760.405344632666	0.191942452873016
AGTCAGAAGCTA	760.409781860022	0.257210914430575
AATGCCGTGTCA	760.409850011852	0.326987889206756
ATGACCATAGAC	760.416947122178	0.219062774627672
CAATGACATTAA	760.417174803314	0.340315682276974
AATGAGTATGTG	760.428471071834	0.307161574514161
AACTGCTGACTA	760.431156202012	0.252399934200426
GCGTGAGATGAC	760.43288821809	0.232423939548229
CGTCATCTCATA	760.440086448135	0.30499186050695
CTGTCAATTGGAA	760.441692056542	0.375971305428164
GCATTCAATGAC	760.465762361248	0.284445325575331
GTCACCGCCATA	760.469560066955	0.174096908089477
GATACTGTACCC	760.472688724648	0.266342500529953
GACATATCTGAC	760.477013751424	0.42457425464438
GAGTGACCAAGA	760.485966541066	0.296952487153626
GGCAGGGAGTCA	760.498711147849	0.20468093600617
GCCCTGTGACGC	760.504327697675	0.27789656132972
GCAAGCGGTGAC	760.517301620504	0.258204227118576
ACAAGGTAGTCA	760.52042688314	0.424772670819468
AAAGCAGTCAGC	760.521950011009	0.285282113113438
AGTCAGACTGTC	760.52932779481	0.351356131435338
ATGACAGACAGC	760.531659999856	0.194759842130555
ATGTCATCTGTC	760.539141612128	0.369803825767312
TAAGTCTAGTCA	760.539980000403	0.363771561352541
GTACTIONTGTGAC	760.551447696192	0.256498068143106
CACCTAAGTGAC	760.559267804303	0.347290859375758
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CCAAGTTTGTCA	760.561709918463	0.249810668699699
GCATTATGACCC	760.566239078508	0.245048991803293
AGTGACGTTAAC	760.570093093883	0.383644890970582
AGTTACCGTCAT	760.58611060525	0.358973267447569
GTCACGCAAGTA	760.587447602864	0.249318051743723
GTCACCTGGATA	760.59678984333	0.248731553759322
ACAAGCGGTGAC	760.604618297625	0.392578034925728
GCGTCACTTTGA	760.610321344767	0.313889180407646
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CACTGGTTAGTC	760.612967914293	0.296364829499885

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ATCATCGTCATG	760.621650052871	0.266414015416979
CGGCCTTGACTC	760.628427495226	0.226725281055878
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CGTCTGGGTGAC	760.643874263147	0.334344212936331
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GTCATTCCGGGA	760.669530436556	0.259711877815682
GGTGACCCAACA	760.669902959647	0.291707144461641
GAAATTCGTGAC	760.673761851993	0.227885307153914
ATGACAGACCCG	760.685074818037	0.236922748731464
AACTCTACGTCA	760.69371621434	0.297254313642195
ATCGTCACGTCA	760.700531982807	0.249067114899728
AGCAACGTCACT	760.706890186357	0.297187893275029
ACAAACAAGTCA	760.707194096871	0.356718380594486
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ACTCATACTGCA	760.736834276699	0.311062963204427
CAGAGGATGACC	760.744180546699	0.306789781487604
TGAAACTGGTCA	760.75123283407	0.261712265769635
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GGCATACATGAC	760.783374111968	0.286672626221618
TAGCTCGACTCA	760.784064534997	0.223039603161576
GATGTGTAACCC	760.790007719133	0.288399840451402
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ACCAGAGTGACG	760.809317498576	0.389532253655192
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GTCATTATATCA	760.827988394561	0.49270972030906
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TGACATGGATCA	760.896057425174	0.248579155915837
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ACTGGGTGATGC	760.961607803788	0.26368449486456
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CTCGAACATGAC	761.016174544715	0.305797968944144
CCTATGACCGCA	761.024156302088	0.254608250390228
ATACTCTTATGA	761.03228093863	0.418464376406441
ACTCATCCAATA	761.036237406685	0.214931838922825
ATGACTTCGTGC	761.036628758274	0.278553383566786
AGAACCCAGTCA	761.037330399768	0.276193932904011
GTCACTAGATGA	761.038598549891	0.344022713338203
AGTTACTGACTA	761.040042689752	0.295759548247124
AGCCGCTATGAC	761.045460090694	0.258150945312768
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CTGAGGTGACGC	761.129747372832	0.397521360309145
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ATGACATTAACC	761.169157548211	0.160603500461844
GCGCGAAATGAC	761.173230876288	0.354159074755536
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AGACTCACGCGA	761.336101069397	0.24226848411554
AAAAGAGTCGAC	761.361183542743	0.231299176184896
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CTAGACAAGTCA	761.366348336607	0.230017966981619
AGTCAGCGTTCA	761.373854409721	0.226175466339649
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ACGTCACCTCGCG	761.386537841325	0.267764353113005
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GTCATTAGGGAC	761.766286448388	0.296027336897422
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GTCACACCAAAC	762.367169677901	0.314802162680463
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GATGATTGAAA	764.12695438979	0.249673481347423
TGACTACCACAA	764.127258435221	0.441801259285953
AACTCATACTTA	764.13645539361	0.360569183713416
CCAGTAAGTGAC	764.139186584859	0.341936269728775
ACGTCACCGTCC	764.139937205677	0.284913143479359
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GTCATATGGGTA	764.148621427452	0.245768549448901
CCGGGCTAGTCA	764.14897392876	0.341651249452033
AGGCATTGGTCA	764.149780068256	0.279749214567535
CATTGACACACG	764.160354458888	0.341722714278011
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AGTCAATGACCC	764.165814925519	0.327135215239263
AGTCAGAGAAAA	764.170390372694	0.298951843143995
GCCCCGGAGTCA	764.172911545273	0.243665653026965
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ATTACACACATA	764.178477285137	0.29098884971325
CGCGGTAGTGAC	764.182966790212	0.389538103311095
TCTCGGTGACAA	764.184527578193	0.28070475559298
CATGAATACTCA	764.187722490109	0.252181809506669
GACTCACTTGTA	764.1878554093	0.366399570319433
ATTTCGTCTGACG	764.22147163218	0.574013627199681
AGTTGGAATGAC	764.223048226287	0.158588506169908
CACGTGACGCGA	764.231270548261	0.316977259322116
AGTGAGCAAATA	764.234056660351	0.252838653062153
CCTGTTTATGAC	764.235803911636	0.316560544411201
GTCACATGCTAA	764.240071316364	0.256766654860807
ATGACAGCCTGA	764.25648403821	0.29373453478024
AGCCCCGGAGTCA	764.259850615973	0.326120533460004
CGTCACGATTTA	764.271578309466	0.270127048893432
TGAGTAAAGCCA	764.278543859565	0.159214896033936
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ATTGCGTAACTC	764.279603363696	0.24540562417303
CAATTATTCATA	764.284267445705	0.242713195082823
GCATGACATTAC	764.288910687644	0.435109644371339
CAGATCATGACG	764.298447439115	0.338442364020277
AAGGGGAATGAC	764.298859532359	0.191206912509194
CAGCGCTAGTCA	764.301313290896	0.282940515242204
GTCACCGCATCA	764.30352087543	0.267232181304652
ATGACAAGCATG	764.305493442159	0.417279414715166
ATGTAATCATCG	764.307160593937	0.250625196960008
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GTCATCATGAAA	764.317052292775	0.265680143965581
ATGTCACAGTTA	764.317799646079	0.214267376105284
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GTCACAGTTTAA	764.365057707216	0.528576373099682

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GTCACCCAGTTA	764.894407096591	0.215211911380339
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CAGTCAGATGGA	764.906398762613	0.284100419067478
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ACTTCAGATGAC	765.766829332403	0.217489578540848
AGGCAGACTCAC	765.769790381034	0.256708512343088

GACAGCATGACA	765.770252004645	0.51352147187258
AGGGGCTATGAC	765.772349346439	0.266989159404699
CAACATGACAGA	765.773200293996	0.177894588888053
CAGTCAGCTTGC	765.777696610364	0.435537961058074
TGTCATGTGTAA	765.778842784504	0.32349319889292
CTGTCATTACGA	765.78458872054	0.297595600394279
TATTCAGTGTCA	765.786252009758	0.244061790682469
GCCGATAATGAC	765.795197935356	0.379302146351448
GACTCACGATCC	765.7965090741	0.247468753314955
CGTCATGATGTA	765.801265553438	0.261365320052376
ATGAATGACCAC	765.802103935869	0.325115038728878
ATGTCACGTAAT	765.802985292747	0.253150969639255
GTAACGTCACTA	765.819148665936	0.389806692392279
ACACTTGGTCAC	765.820362408517	0.220573037220503
CTACTACTCATC	765.838395094102	0.240410223576298
GTGTCTGATTCA	765.842802746735	0.487158238681397
ATGACATCGCAT	765.84464196871	0.236372740981771
GGCAGGGATGAC	765.85868667287	0.302329281853334
CAGTTGGTGACA	765.860629377515	0.209441734678748
ATGACGCGCTGA	765.862975413589	0.305223681771539
AAATTTCTGTCAG	765.875885236266	0.390487404396751
GACTACCATGAC	765.876392249168	0.297544488530629
AGACTTGACTGA	765.879730010731	0.269477485889685
AGTCAGCTTATA	765.882993958545	0.32404788302237
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CATAGTCTGACG	765.912803212965	0.301558500156843
GCAAGCAGTGAC	765.919213155801	0.322982094617514
GCACATCTATGA	765.929379735219	0.390068581868582
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CAAGTATTGTCA	765.950775903066	0.342471083690842
CTAATGCGTGAC	765.951946104831	0.364786528308381
GTGAGCCACCCA	765.954027306103	0.194780236230214
ATACGTCAACCG	765.964004918628	0.161908625568207
TGAATCAGTAAA	765.965822405638	0.239597381616287
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GAGCCTGAATCA	765.978785558397	0.350203944817061
TGAGTAGTCAAA	765.989279362056	0.202970282784348
CTCACATGACGC	765.992363756979	0.189702324949646
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GCTTGCTCATGA	766.023602983847	0.39207639957146
GTCAGCGACTCA	766.030195426276	0.283118714641001
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TGTCATTATTAA	766.076791818201	0.273454532379877
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GTCATTTGATGA	766.101860055074	0.445523355265974
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GACTAATCCAAC	766.353213348442	0.364041179095688
CCCGGTAAGTCA	766.361868021633	0.382270704471856
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GATCAAATGACA	766.43917102126	0.159585860159351
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GAGGTTATGACC	766.492603753219	0.264443885305752
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CAGCGAAGACTC	767.419788354325	0.546031806249742
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ACAGTTCTGACT	769.047132529268	0.303760193975379
CGTTTGAGTAAC	769.051988110875	0.253020104112384
ACTGATGACCTA	769.057441988531	0.159203232346021
CTGTACAGTGAC	769.064760580265	0.256779238756037
CCCCGAGTGACG	769.082278603968	0.524510939235271
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ATGATGTATACA	769.089205651521	0.392538355823091
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ATACGGTCATCA	769.095431413349	0.299649343020857
ATATTAATCACC	769.100131374311	0.280608154061498
ACGTAATGTAC	769.100480665888	0.332643697432594
CGATCTGTGTCA	769.102971935619	0.275017336980687
ACAAGACTGACT	769.106515874418	0.583720819864173
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ACTACGTAATCG	769.115087444878	0.349822370977238
GGAAAAGTGTCA	769.116149915832	0.0921241450671728
AGTCGATTCATC	769.118857424825	0.33390814466691
AGTCAATTCCTTA	769.12417942496	0.445619366421424
ATGACGAGAAGC	769.125590196349	0.286617942407048
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GAAAGTGGTGAC	769.154508989045	0.222447428570091
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CGTAGTTGTAC	769.205756087172	0.18120796501377
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GATCATAAGTCA	770.632255253864	0.342651689066573
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CATACGTGATGC	770.722080076121	0.398312517466795

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CGACTTGTGACA	770.7422171229	0.382003334734063
CGTCACATCTGA	770.742307154096	0.273303165600606
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CAAAGCTGAGTC	772.316885035622	0.23140094253496
ACCACCCAGTCA	772.325435233988	0.263537015861039
CAGTGGGTGACA	772.325904135953	0.241368482818825
CGTTGACGTATA	772.327206317345	0.275416546279249
CTGGGTACGTCA	772.33136478153	0.519493115923375
ATCCTGGTCATA	772.331568335877	0.245057383860562
CGTCATTACGCC	772.335202624884	0.250666821633476
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GTCACCTGGTTA	772.341958549236	0.311326646017331
AGAAGATGACCC	772.348968601573	0.298229067597677
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CGCAGCTGACTA	772.389943333817	0.309853717466923
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CAGACTCAGCAG	772.402008663527	0.461121123247857
GTCACACAAAGA	772.421905601351	0.322834634369358

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ACCCTCGACTCA	772.474928301483	0.18762899366266
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CACAACCTGTCA	772.48136061762	0.237900090859582
AAGTCATGGTCC	772.485874981821	0.20237165758388
GACTTCATGACA	772.493311819044	0.396796576483156
CTGTCATTATCA	772.499826531143	0.31379460717984
GGGAGCGATGAC	772.504582438352	0.143740794916287
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GTCACACTGCCA	773.173281380106	0.207126021434383
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TGTTACACATAA	774.094270180125	0.377598419803905
GACGTAACAGTC	774.096583361259	0.17789469583767
AGCTGTCATGAT	774.097626646619	0.342208832599608
GCGTCACCATCC	774.109226468987	0.225206716254806
CGCCACAATGAC	774.109327931974	0.292529340904474
TGACTTAGAAAA	774.120801142438	0.281475620439443
CACTGTTGCTCA	774.122248686303	0.318334387679953
AACGCTATGACC	774.122333255224	0.309128630250851
CATAAAATGTCA	774.125523376554	0.283342248669228
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CCTTCTAATGAC	774.128317409946	0.319332212452543
TGACAGGTGCAA	774.129303056312	0.412200311330834
GCGTCACAGGTA	774.134428605009	0.162816517920194

GCTACTAATGAC	774.160802287382	0.351458704531954
GCAACTTGGTCA	774.17715508161	0.272804715786934
GAATCATCATGC	774.179931320813	0.334858072176587
AATAGTGGTCAC	774.185462316185	0.262634951974309
GTCATTGTTTCA	774.196043239004	0.298855468486274
ACTCATCAGTCG	774.198428581896	0.430735000960482
ATGAGTAGCTCG	774.210420786551	0.272574938719373
AGACATGACACC	774.213554453392	0.347492128223245
ATCCTATGACCG	774.222373425245	0.269023817182906
CGTCCCTAGTCA	774.225054537072	0.251523645666824
ACGGGTCATAAG	774.228513506508	0.273925345134051
CCGTCATTGTAG	774.229762556006	0.377969265018741
CCGTGCCATGAC	774.237332397671	0.275614992910065
GATGATTAATC	774.237566300546	0.293912236446837
GTCACAACGTGA	774.238874364862	0.357249099212668
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GACGTCACCGCA	774.365586941838	0.199967192573078
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ACTCGCGTGTC	775.674276298126	0.322086009634411
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ACTCATAACATG	775.726372949622	0.16824508403338
TGACACGCAGCA	775.729020224551	0.518174478053188
ACGTCACCAAGA	775.731220075786	0.217031463517599
CGCTAAGCGTGA	775.74094490703	0.311864027311799
ACATTTGTGACA	775.74481817851	0.239839814692117
ATATGACGGCAA	775.747740534891	0.140246119401283
CGTCACGAGTGA	775.760911027246	0.34856604161687
AAGACCGTCATA	775.771328323992	0.262342792139109
AATTACTATTAA	775.791863352645	0.264990060576287
TGACAGAGATAA	775.794568553762	0.24977331082038
ATAATGTGACAA	775.796579055549	0.26907367583297
CTCATATGACCA	775.798358195301	0.271015524526985
TATTAAGACTAA	775.800512898889	0.337778325329966

GTTACTCTTACA	775.800926043185	0.169604600994449
GTAGGAGAGTCA	775.802642438984	0.237304098637444
GCTCGAGTCAAC	775.808582747825	0.338259540306151
CGCCGCTATGAC	775.810218836042	0.390408278988144
ATTACTGACGTA	775.815646610063	0.28279617318526
GGTAGCGAGTCA	775.816755964879	0.28856904572286
ACGCTTGTGACA	775.816872069969	0.235809121619271
GTCATAAGTCCA	775.819880630407	0.337688826608263
AAATTGCATGAC	775.820026169141	0.327327917275329
GTGGATAAGTCA	775.822967814644	0.162808217981582
GCACAGTGTAC	775.82431865011	0.280957824524872
GCACATTGGTCA	775.824614469218	0.280984051877162
AGAATTCGTGAC	775.824667205329	0.260589515922879
AACGTGTGTCAA	775.829620718591	0.330926077062714
ATGACATTTTCG	775.832019049813	0.268483458175767
CCTGTATGTGAC	775.832471552915	0.294520929954186
ATGATGACCTAA	775.83332868714	0.266722043278874
TACTAATGACAA	775.83551660527	0.253702514705599
AGTCAGACAACA	775.844527991987	0.206301188677307
ATGACGGTAGTG	775.845956456656	0.234360061495483
TATCAAGCGTCA	775.857495381991	0.331971052066621
AGCACTTTGTCA	775.867555055726	0.232341929936722
GGCTATAAGTCA	775.86789819402	0.342664913032943
AGCGCCAGTCA	775.868534278959	0.35307066047479
ACGACTTGTAC	775.872168152609	0.228526551119769
CTACATGTATGA	775.874618264946	0.356870396690888
TATGACGGGGAA	775.875034301224	0.275411770504835
CATGACTTGGTA	775.881110307654	0.274830840747244
CTGGTCATATTA	775.888220309879	0.209447187688533
CGTCATTAGATC	775.89810221563	0.193253130086848
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TAGTCAATATGA	775.94268871211	0.313574852694489
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CTATCAGACTCA	779.056371075164	0.298552857272526
AGACTCACTACT	779.065146308371	0.217760027087824
CGTCCTGTCATC	779.067093798888	0.244684357129461
CGTGAACGTGAC	779.070069418629	0.344593575389015
GTCACCCTTGCA	779.07683994799	0.209086061433302
GACACACGTCAA	779.076911458381	0.35742843282206
ATGTCTGGTGAC	779.080338603976	0.231069871768536

ATGCCTCGATGA	779.084773094021	0.301126279384858
ATGACAGCGAGA	779.093710282898	0.249891507080416
CGGACTCTGTCA	779.100341206163	0.337108886092329
CGATCATGTGAC	779.108713160843	0.422385956071006
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CGGCTTAATGAC	779.132121145048	0.360284413599652
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AGTGACCCTGAC	779.140721326599	0.416645367693298
TGACGCTGACAA	779.150909833662	0.249532548587175
AGTAAGACGCAT	779.157728474402	0.229151068483509
CTGACCGTGTCA	779.163697174264	0.324430294633632
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GGATGACCTCAC	779.178011328345	0.2783717039719
TGACAGTAATCA	779.184344969386	0.396782168774086
TGCGGACTCACA	779.193217360118	0.252950327108785
CAACCACAGTCA	779.196970710271	0.249284455474531
GTCACAACATTA	779.200853671452	0.355476835725662
CACTCATTGTGA	779.203448281762	0.293231747706766
GATGACAAGCCA	779.209989723471	0.398489141591685
AGGTGAGTACTA	779.213901403145	0.208086575045053
ACTGAAGTGACA	779.217282450881	0.471857526881781
ATGAGTCCCTCA	779.218645611423	0.29682425258665
ACTCATCGAAGT	779.221717967046	0.227292265076833
GTGTGTTCTGTCA	779.224615996495	0.332261831345729
ACTCATAACTAG	779.227066405926	0.160338952925884
GGGCATCATGAC	779.234946669294	0.190621574453601
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GTCACAGACCA	779.246174198068	0.325901418042154
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ACAGCGTGACT	779.249134594661	0.279732898746236
GAAGTTGACACA	779.250260640781	0.299988247939928
GACATCGTGACA	779.250943279949	0.317257516756977
CGATGACGGCAA	779.259956658957	0.361566597779104
ATATTGTATGTC	779.263297659538	0.184715839400574
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ATGATGTGGTCG	779.301651692207	0.257904969341333
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GGTGACCCGTAC	779.308657402809	0.409820719191247
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GTCATCCGCCAC	779.325825538781	0.0707053445233687
GTCACACCCTTA	779.327612395471	0.227223528505043
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CAGGGCAATGAC	779.809098010825	0.313617770321538
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GACTGACTACTA	780.733325143863	0.307358340902688
CCTACTTGGTCA	780.743941809217	0.291705953565935
TGTGACGGCACA	780.749350907651	0.404743392366332
TATTACTCGACA	780.750501430217	0.185825184881056
GTCATTAACCTA	780.765211355971	0.343852174116578

AGTAGGGATGAC	780.76717619158	0.236242031069343
AGTCAGCTTTTC	780.768691288698	0.339745028223189
CGTGTGGCTCA	780.770967854562	0.24569847036449
ATGACCGAAACG	780.775733413842	0.274534725642123
ACACTCAGTCAA	780.783634830854	0.272682801768843
CTCTGTTGATGA	780.785544559682	0.360804418223113
AATCAACGTAC	780.795933289192	0.245129304708072
TACGTTTGGTCA	780.797890296965	0.300826179913752
ACACGTAAGCGC	780.814206667629	0.314294507302735
CTTTAAAGTGAC	780.816852199578	0.282099930150509
AGTCTTTACTCA	780.822627147271	0.204996995688861
ACGTGCATGACA	780.824819079367	0.24666069132519
GCCTGACGATGA	780.829559240773	0.376562467309473
AGATCTCTGTCA	780.842227328756	0.234645647069368
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CGTCATGTGTCC	780.852068904099	0.401635801759891
GTCACAGATCCA	780.867667189233	0.279397054386997
CATAATTACGCA	780.871851465193	0.259267050135085
CATCGGTGACAG	780.872484086904	0.245391796844744
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CAATGACATTAC	780.874111505398	0.33496276868392
ATCTGTGTCAAT	780.88122806676	0.318910243342447
ACTCATGTAGGC	780.886207396717	0.48413629079056
GATCGGTGTAC	780.892748815057	0.187503652265542
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ACACGTGTGACC	780.902279025734	0.280907664700997
CAAGTTGGTGAC	780.902868682537	0.255451144251289
ATACCGTCATAA	780.907038350207	0.24346482763936
ATGACTTCGGGA	780.908837390071	0.303375237823867
GTCATGCTTGTA	780.908994490858	0.248575442627521
CGTCATTTGAGC	780.909161929224	0.275030757054159
ATGACCGAACCC	780.912595858196	0.202335165951896
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AACACTTCGTCA	780.92121823785	0.366561460559346
GTTACGTGTTAA	780.923510099135	0.214958961124289
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GACATAGCTGAC	780.927317527583	0.25979065745454
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CACTGTGTCAGC	780.936517117173	0.2267836488049
CACTATGAGTTA	780.946989971393	0.351480695897316
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GACTAACAAATC	782.373140045885	0.392326474802188

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GGTTTCTGACAC	784.151678566978	0.349345772065366

CATCTTGTGACG	784.152701875198	0.392197290580566
ATGACGTCTCAA	784.173720243812	0.242200577785433
ATTCTGTGTCAG	784.179420539743	0.274315194862019
GTGCTGAGTAAC	784.181752748493	0.514558222994324
GGGACCGAGTCA	784.191650433077	0.299365173754915
GTCATGTAAACA	784.197177684236	0.405702436651482
GTCACAGGGCCA	784.207262581261	0.276778485823963
GTCATTGGTTAA	784.211209593818	0.423727161860991
CGACATTGCTCA	784.213638221664	0.24615421466996
AGCAGCAATGAC	784.213644723319	0.147419755672968
CAAAACATGACA	784.217206753179	0.27435635753521
GCGTCACCTGAA	784.222874400354	0.253614722035685
CCTGAGTCTGAC	784.241937585989	0.295233649755994
ATTAGTCGGACC	784.247203522036	0.239772908481408
TCCGATGATACA	784.248209282454	0.324072490427366
GAACCGTCACAC	784.250555437254	0.213731673784816
AAAAGCTGACTG	784.251364770023	0.304113161325823
GTCATGGCCAAC	784.253560449163	0.286340330822834
GACTCAGAGTCC	784.259171392676	0.271427876787288
GATACCGCGTCA	784.260508724516	0.269526627807386
AACGAAGTCACC	784.26677425492	0.315435200082629
GAAGTTGACTGA	784.268011233006	0.296372436161787
CGCACTGGGTCA	784.277358746154	0.485327592455673
ACTAACATGTCA	784.292960978977	0.209816571495774
CGACATTGACTA	784.296890653375	0.313995467083543
AGTCACGGCACC	784.30458777767	0.132330213479823
ATGACAAGGCCG	784.305366484803	0.255940764656625
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CCACCATAGTCA	784.320570405306	0.257306201114522
ACTCATAGGAAG	784.322110524347	0.230947333247084
GGACTAGTCAAC	784.324885931896	0.170761456274085
GTCACCGTCCGA	784.326098291768	0.313355944697918
AGTCACGCCGCG	784.328554772085	0.182607998410969
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AGGGGAATGACG	784.352399252769	0.138761489028551
ACTCATATCTAA	784.354417550866	0.229962071782943
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GACTAACTCATA	784.380813502885	0.235376307941864
GAAGTGGTCACA	784.384469090998	0.249690174372958
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CGTCATGCGGGC	784.775381688018	0.350210736248646
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ATTACAACGTCA	785.812499429813	0.260255822420363
CAGTCAGCGGAA	785.814761323176	0.220745339965301
GACTCAACACAC	785.826557369132	0.268203503340108

AAGATAGTGTC	785.836065925117	0.307555607377618
GCGGCTATGACC	785.836217850981	0.403236924835958
ATGTCGGGTGAC	785.837545407529	0.287010970920868
CACTGACGATGA	785.838783813678	0.246559082490801
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CAACCGACTCAC	785.859043675609	0.228344589758692
GACTCAACATCA	785.861867774561	0.225409834207272
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ACCCCTCAGTCA	787.269334263185	0.227173813741078
GACTCAATCATC	787.272095304867	0.227078869713786
ACTTTTGTGACG	787.272915828506	0.396562932760765
GGTCAGGAGTCA	787.276530334779	0.194147587877829
CGGTATGATACA	787.280027287516	0.183117537039752
ATGAGCAACGCG	787.289698278062	0.207468765190887
ATATCTTCGTCA	787.296556693711	0.243837081836265
ATAATGTCGTCA	787.297506465077	0.33768371204768
AACAGTCAATGG	787.299563473893	0.279011318371155
AGTCAGAACTCG	787.301630985192	0.257276808549558
TGAGTCCAAGAA	787.304067252988	0.316981643435139
CTTCCGCGTCAC	787.310279382917	0.180567249762235
GAAGTGTGAGAA	787.31260337975	0.195802253942136
AGGCAAGATGAC	787.313821798789	0.270459641103789
ATTAGTCGCGTG	787.315218783182	0.296091503636987
GGGGATCTGTCA	787.317040889046	0.248706707129348

ATGACTTTTCTG	787.321186073617	0.269204507513479
AATGACGTCGAA	787.322704387125	0.279184507809728
CATATGAGTTAA	787.330501767043	0.317722855376455
CTGCGACTAATC	787.330711214324	0.262276348620829
GCTTACAGTGAC	787.330829022479	0.250184070158531
CACAAGTTGTCA	787.33111585777	0.221120697543449
GTTTGTCACTAA	787.335521848557	0.173155907898531
ATTGCTAATCCA	787.350451778796	0.258737352362738
AGACTCACGCTA	787.353598145438	0.309308184530864
ATGACGTCCTCG	787.355603421068	0.358984265534327
CGGTAGCATGAC	787.361974454588	0.352893035269831
AAAGTTGTCACT	787.364356786763	0.20785660655958
TCACGAGTCAAA	787.374265176185	0.265208392123656
ATGCTTTACTCA	787.377423558531	0.268047619477638
GAGGCTACGTCA	787.393429806787	0.409568007305499
GATACTCTGTCA	787.416059909748	0.261018765308508
ATTGTGACAATG	787.42804124113	0.219610966334054
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GGCCGCTATGAC	787.433696076718	0.312212887729618
CTTACCGTGTCA	787.442129606549	0.41149999948927
CGTGTCACGCAA	787.445168135564	0.307911928741381
AGCCTAGTGACA	787.456596729535	0.329224101547716
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GAGACTAATGAC	787.46221903947	0.184376101070408
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GACTGACTAGTA	787.478517894424	0.296907691318339
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GTCACGATTCAA	787.559474059023	0.233176596119573
CGATTAGTCGGC	787.564445842461	0.288853216087317
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AGTCAGAACTGA	787.578959897252	0.224107855279094
GTCATGGAATCA	787.586398086769	0.349772838927237
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CCGATCACGTCA	787.595678476351	0.387470863404525
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AAGGATTAGTCG	787.649396090687	0.0924530994669904
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GTCACATGTTCA	787.666329678895	0.20772108593682
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GTCACACCAGAA	787.677634115027	0.271125516572207
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GATGAATGACCC	787.683048281933	0.358910789703103
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CTGCGATGTGAC	787.703093639262	0.302633581738136
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ACTCATCCATTA	787.815470900615	0.170960730476126
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CGGGTGTGTGAC	788.963366030832	0.320779547611584
AGAGTAATTCGG	788.974626659129	0.29945241226542
CTTATAAGTGAC	788.98215062807	0.212053600082414
GACCGTCTGACA	788.983213231649	0.23161554390155
TGTGTCAGGGAA	788.988022019467	0.214262897651169
CGAATGCATGAC	788.991891136357	0.344937279131571
AATGACGGGCC	788.993615033477	0.259728174324653
TGAGTCGGTGAA	789.008465820851	0.1475576978311
AGGTCCGTGACT	789.018232233668	0.264849296316502
TCATACTCTGGA	789.019094644038	0.302289785071607
GAATGCAATGAC	789.027776559123	0.345112043257216
GATGCACTGTCA	789.036192025576	0.339528667458537
CTAACAGGTGAC	789.037302374516	0.378136086543438
ACCAGTCAGGAT	789.038893457932	0.343187021556796
CAATTCCAGTCA	789.046679481965	0.150276376203109
CCGTTGACACAA	789.047792630688	0.349500237356306
TCTTAAACGTCA	789.049052969112	0.334672000037893
ATATCATCAGTC	789.060508867581	0.239336174587365
GGTGACACGAAC	789.060937993904	0.29228692456276
GCAGACATGACA	789.061296601857	0.269324858208872
ATTGGGTACCGC	789.067125010783	0.247064289110642
GATACGGGTGAC	789.068178470581	0.181584325998125
GATGCCTGTGAC	789.07336446448	0.386450089125044
GAACACATCACC	789.076574351116	0.204100729422741
AAGATAATGACG	789.076972908366	0.227422138714719
CAAGGGTGACCC	789.080746688376	0.250270385943192
CACTCTAGTGAC	789.08143242148	0.247084302593481

AGAATTGTGACC	789.083117221076	0.293914784010687
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ATTGTTCTGCAC	789.091317508122	0.341313537880558
ACAGGCCAGTCA	789.095720240716	0.423587861015117
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GCAGTTGTCACC	789.098619956608	0.320091625639536
GTCACACAGCCA	789.112787357091	0.182451718433495
TGCTGAGTCGAA	789.11610393219	0.269540982793238
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TACGTGTCAGAA	789.13719835403	0.195450851056868
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GCAGCATGTGAC	789.171578582136	0.190845164067337
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CGATTAATGACG	789.197140868716	0.315678760421199
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ACTAGTGACGCT	789.226281978652	0.324147361297025
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GTCACGACACGA	789.235392160429	0.237271720423808
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GGTCATTCATTA	789.241167718717	0.445513027420773
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CTGCCATGTAC	790.506221570638	0.219592657430607
ATGACTTGAATG	790.508240352676	0.208314438595999
ACACCGTGACGT	790.50835140045	0.374609927255476
CCATTTAATGAC	790.5090517821	0.23627781106502
GAGTCAAGACTA	790.532334993243	0.290757860375873
ATGCGTATGTCA	790.533823830177	0.233342283923253
ACTCATCGAAAG	790.534047656153	0.303005006868822
AGTCAGAGCGCC	790.534720483968	0.295467077745047
CATAACATGACA	790.552267215495	0.311231262510496
CATAAGTGACAA	790.565236319534	0.250619902695056
CCGTCGCGTCAC	790.565727405746	0.218377153252666
GAGGGAAATGAC	790.574950368085	0.198141901953372
AAGTAATGACAG	790.583981544632	0.25804429492898
AGCCAGTGACAC	790.585373263515	0.2648214177895
CGATAACTGTCA	790.587582879961	0.344944377948756
CGCTCGGTGACA	790.592164879987	0.293652305774333
ACTTAATCGTCA	790.593084443749	0.224881962724244
GCGGTCATACCC	790.593627099792	0.277190573040004
CGGCTATCGTCA	790.601156792673	0.386979305299705
CGTCATGATTAC	790.617770543607	0.24093520096512
TATGCGGAGTCA	790.623964984076	0.381787727923608
GTCATGCATATA	790.629056008142	0.252550891257767
TAGGATTACGCA	790.631273899048	0.27335274366781
ACTCATCATGAG	790.644442278921	0.31958056411807
AGACGCCATGAC	790.644750125688	0.408710927875921
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ATCAAGTTAGTC	790.660790323937	0.281686981500444
CAGCGTTGTAC	790.66278040656	0.350493505699262
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GTGAGCAAACCA	790.677783224077	0.27192322789339
GGCGTCATGCAA	790.696553338177	0.342152354775874
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GTCATTTCCAAA	790.704073019069	0.21417017511787
ACATGGCGTCAC	790.709074379956	0.211210301284241
GACTGATCTGAC	790.718012443656	0.198261025792151
GTGACCACTTAA	790.723877100513	0.243977971502078
GCATGACAGTAC	790.73077689022	0.160991219403905
CGTCATCGGGTC	790.735328027872	0.245454116014214
GTCACGCATTAA	790.739199048325	0.252917201072687
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AAGTCACGAGTC	792.082667407665	0.218608215851486
GTCATCTGGAAA	792.086308449014	0.369182555836646
ACTCATACAGAT	792.091722881805	0.226998112400133
GGACTACTCACA	792.092909931237	0.308499796783451
AACCTGACTCGG	792.098473670388	0.318746011852762
ACCCTTTGACTC	792.100876366873	0.149922134961571
CGATTGTATGAC	792.105614130267	0.368315554579867
TAGGTGACCCAA	792.105634489847	0.251852607165612
CCTGTTGAGTAA	792.106359473124	0.328857514016761
GGTCATAATTTA	792.108001122367	0.265021841939872
ATCCCTGTCATC	792.108102628648	0.153891177282655
GTAATAGTGACA	792.115827227216	0.431285658379136
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CGTAATGTCACA	792.121071999841	0.224181710737159
GAGTGACGTTAC	792.125049458532	0.180146797627745
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CAGCCACGTGTC	792.19606359268	0.368923234047636
CCCTGATAGTCA	792.197031157184	0.270082500192036

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GAATCATATAAC	792.219086300771	0.321331414742278
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ATGATGTGGTTC	792.233879499393	0.234816951131079
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ACTCATATTCCG	792.238609181336	0.252375611041086
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CACGTCAGTGTC	793.730185067338	0.371529174391571
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GTCATGCAACGA	793.739425642501	0.409802823673169
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GGCTTACGTGAC	793.753884786293	0.251874326274778
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CTACATATGTCA	793.761446493349	0.286080487071359
AATCCTGACTCG	793.762067869549	0.296365883818778
GAATCATCATT	793.768168387919	0.305558006273165
ATCTTTCTGTCA	793.781159082798	0.345536248724434
CATCGTGACCCA	793.785449629527	0.298581833171408
TAGTCAGTCTGA	793.78891135106	0.233211816696049
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GTCATGAGATCA	793.80031831744	0.225404443525753
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TCATAAGCCGAA	793.836381187546	0.26953958032007
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ACGTGACACGAT	793.850834848227	0.150457463932071
TAATGACCACGA	793.852573872315	0.397506656115527
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CAATCATATGAC	795.296508627636	0.389389657724117
AAGAGTATGAGT	795.296781864558	0.177423218116297
ACTCTTTGTGAC	795.298755393553	0.209312275552723
GTATCGTCACTA	795.300756698236	0.326996124072525
AAGTCAGGTGAC	795.308215634647	0.246726647728672
CCAGTCAGAACG	795.313807203729	0.339182749579458
ACGTCACCTCGTC	795.318786781378	0.235359081733423
ACGTCACCTTCTC	795.325726829758	0.209095843396825
GCCTCCGACTCA	795.333319375857	0.237399923922137
CTTGTGGACTCA	795.337945021596	0.27721945238963
GTCACGAGCCTA	795.338170518007	0.34843918871249
TGAGGTCATACA	795.339077679493	0.206323575598132
GTCATGGATAAC	795.340214815548	0.178756432149267
ATGTCACCAAAA	795.35260312944	0.401180656955439
CGAACGATGACC	795.353183524554	0.505484336698109
GACTAATGTTCC	795.362025606307	0.280761953523259
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ACTCTTGCTCAC	795.372649603526	0.212709906923936
AAAGACGTCACT	795.387591163894	0.279147726123168
CCGGGGATGACG	795.394574805689	0.274625152584967
GAGTAATCCTAA	795.410668065987	0.248949442143845
TGACAACAAAAA	795.417203945573	0.428575051405394
ATGATAGTCAGA	795.419237943222	0.220199795599072
ACTTGGGTGACA	795.429283199944	0.307635260726751
ACCAGTCAGCAA	795.434149039513	0.143182529816699
CGTCATTACATC	795.439740671051	0.198239032768324
GTCACCTTACA	795.444272640372	0.257167688060547
GATCGCCTATGA	795.452096718313	0.223811225072819
CGCTATTGTGAC	795.452589960912	0.211293614124132
CGTCAGACTGAC	795.459352113544	0.396325988698301

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TGACGAAGTGCA	795.488350858251	0.343973453315849
ATAGTAAGAGTC	795.489189973985	0.309175835955553
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CTGACTGGGTTA	796.970237455781	0.211535861021102
CGTCATTCCAC	796.978741988726	0.194818935102343
CAATCAGACTCA	796.991805941372	0.122316937636967
CGATCAGTGACG	796.992371040935	0.278122461663411
CGATTGTGTGAC	796.996133532677	0.241537289358775
GATGCCATGACA	797.004707726838	0.2935932360767
TCATTATAGTAA	797.008619705141	0.223566489086174
GACTCCCATGAC	797.011311270161	0.396629732686978
AAGACAAATGAC	797.012692970601	0.155670713791554
ATTAACAGTGAC	797.01320526876	0.244351063374391
ACTCATAGGCCCT	797.014248563445	0.20664619827409
CCCAGTACGTCA	797.022367053811	0.363022044186469
GCGACTGTCATA	797.027869728544	0.140663522859554
TGCGTGGTCACA	797.031658458978	0.224728704766521
GTCACCTACTAA	797.042444429402	0.207183856784392
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GACGAATCACTC	797.06446934199	0.221723066893022
TAGGCTGTGACA	797.06475194776	0.294087211940175
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CATGACATTTAC	797.070862477168	0.400462633029192
CGATGGAATGAC	797.074198526223	0.229737601931938
GTCAGTTTGTC	797.08407424699	0.230134255999809
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ACTCATAAATCA	797.091513499316	0.314394747374595
AGGATGACCGAA	797.096657457033	0.235463718730066
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AGTCACGAGTCC	797.105989847108	0.194799635731986
AGAGTAATTACT	797.106100640423	0.332919674462295
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ACTCATACGGCG	797.113609184664	0.247212015898157
TCGTAGTGACGA	797.116748711075	0.237977336672229
CGGTCATAGCCA	797.118634775476	0.271409403373665

TCATAAAAGTCA	797.120597964982	0.240811099351005
AGAGTCAAGGCT	797.12203214462	0.296506800426841
TAGTCTGACAAA	797.123228717849	0.291369151187949
ACAAATGACATC	797.132169202871	0.259490573132072
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ACCTGCATGACG	797.143031549518	0.244664937534052
ATGCACTCATCG	797.145373802758	0.316502228854424
CACGGCTGACTA	797.149412406984	0.370365973427436
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GACTTGCTCACC	797.599230939987	0.204816429413626
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ACGTCATGCTAA	797.640701668568	0.247264664263337
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GTCACCACACGA	797.707764768331	0.243164151073121
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AACTAATCAGTC	798.582320052139	0.332047817861455
AGTCAGAACATG	798.583040913828	0.133037303497423
ACGTCACCGCTC	798.59063921291	0.204567111731261
CAGTCAGGTCTGA	798.59638363845	0.218594815295385
GTCAACTGGTCA	798.596607771609	0.215029317929359
CTGTCACCCAAG	798.599977905633	0.227312178678229
GTCACAACGAGA	798.600590773875	0.24261818510178
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AGATCTGACCCA	798.629833394686	0.221445822093017
CCATGTTGATGA	798.632262900701	0.466306402874516
CACTCATAGTGA	798.635400533519	0.205973625843945
GACGTCACCGTA	798.639174304554	0.284211477015038
ATACCTGTGACA	798.639908514387	0.176410906858504
AAATCTGTGACG	798.641760711562	0.224124062557821
CGTCACTAGATA	798.641903109113	0.214602311527634
CGTCACACCGTC	798.64285912051	0.257016650857067
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CGATTGCTAATC	798.651433504862	0.209368853431367
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GACGACGCGTCA	798.658210989356	0.328687555177786
GTCATGTACCAC	798.660029864136	0.270256366458287
CAGTCAGCAAAA	798.664950516082	0.293000399365781
CTTTTCTGTGAC	798.685334895068	0.306889108423813
GCATTGCTGTCA	798.685990251518	0.27226616949744
CCGAGITTTGTCA	798.691133234731	0.30979256828137
TGACGCTGAGCA	798.698619542902	0.301869253001992
GTCATCTCACAC	798.70456307906	0.215887826191471
AAGTATGATGCA	798.705115272359	0.133253692497729
ACGGACGTCATC	798.705705923432	0.427407154900285
ATGACGCTCCAT	798.71052269799	0.20851476214575
CAAAGCTGTAC	798.716775392914	0.251998179874281
ATCGAGTAATTC	798.71709044293	0.164289335447106

CGGTATTACTGA	798.721434938876	0.258633148390497
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ACCGCATGACGC	798.725296572454	0.243568097164267
TCAGTAAGATCA	798.726070455368	0.328563125310311
ACTCATAAAAGA	798.736884542352	0.226532076977131
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GTCATATGGGAC	798.750731396137	0.352561239024187
AGCCCGAGTGAC	798.751508416128	0.202556408322098
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GTCACCTCGACTA	799.03698889274	0.241446549335173
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CACATGGTGACA	799.108385846302	0.340192679785954
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TGAATTGTGACA	799.906753481936	0.187584614220749
AGGTGGCGTCAC	799.908304785701	0.267038996011537
GTCACAGCTTTA	799.916280529552	0.204141358914604
ATTAAATGTGAC	799.917671419168	0.348002687163615
GTCACATACCAA	799.922096975749	0.218393006228017
CTCATTTAATGA	799.922878899411	0.370154626390837
ATGACGAGCAGG	799.9343997418	0.182418200887296
CAGGCCGACTCA	799.935130792993	0.316036810730856
ACGTCACTACCA	799.935246463008	0.263413544029847
GTCACTCTCTTA	799.94303085773	0.201846824367639
GTCACTGCGATA	799.951999541257	0.212030641458936
CGTCATGTTATC	799.953158100712	0.322231967130137
GAAGGGAATGAC	799.954710560898	0.154854392959194
GTTACATACCCA	799.956336285351	0.362956626595432
ATAATGTATCAC	799.957177290735	0.277030463653473
CAGTCGTTGTCA	799.9682062181	0.341910606926874
AAGACGTGTCAG	799.972153357518	0.271667895375116
GCGTGCTACTAC	799.972887618615	0.256939486923362
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ATATCTCTGTCA	799.975882768275	0.219899234702467
AGCACCTATGAC	799.985481323688	0.223865486855391
GTCACCAATTCA	799.997126432595	0.319918353873262
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TGACTCCAGCCA	800.007361656233	0.324911431173749
CGTCACACCAGA	800.009181707382	0.251371926741267
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CAGCTATATGAC	800.016193801677	0.399523968326626
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ACTCATACCGGA	800.034569827994	0.317696837495393
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CACTGATGATTA	800.041890470615	0.300763220372351
GTGACGCGCATA	800.054129973234	0.217961994763503
ATGTCCATGACA	800.072382083258	0.269127007204409
ATGCAATGACCA	800.073973528859	0.179531457672071
AATCAGTCTTCG	800.082143498107	0.282829035119502
AATCGGAGTCAA	800.083411814978	0.158172969717967
ATGACATGCCTG	800.092737045823	0.224779446949707

GACTAATATGTA	800.09465254622	0.200663155480177
GGATCCGATGAC	800.095681652565	0.211090791500602
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AGGGATTAGTCG	800.108660964877	0.213420726132673
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GTCATCCCACGA	800.286146994347	0.293433163076818
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GGTCATTCACTA	800.357859474735	0.251719828398185
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ACGTGTCAGAAC	800.413048295485	0.275697700338759
ACTTTCTAGTCA	800.418463875956	0.151272855406375
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AGTCAATCAGCA	800.580621358199	0.287715726389372
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GTCACTATCGAA	800.70734641729	0.343378329859858
CATGACAGTAAC	800.710060709357	0.177972516761621
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ACCATGACATGA	801.477331642469	0.407005307697047
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AGACTACTA AAC	803.119618388942	0.205361369948626
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AGCTCGTGTGAC	803.126716377909	0.186716718234947
GAGTGAGCCACC	803.13183680398	0.272485704530402
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ATGACCGGTACAC	803.162740127851	0.323816683113356
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CACGTCGTCACA	803.234054446663	0.12192449203145
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ACTACATGACAT	804.824333896049	0.217318011594649
ACTCATGACGAT	804.824496380075	0.268482088515875
GTCACGGTCGAC	804.832132397232	0.166914665451721
ATTCTTACATGA	804.836584944595	0.380130655931336
ATGAGTATGCCA	804.840023540469	0.182635596931288
TGACATCACCCA	804.840306402058	0.170527526862344
GACTCACTGGGA	804.846838370843	0.325458020521912
GTCACCAATCCA	804.850541237917	0.233598093093982
GACCTGTGACAA	804.85322868791	0.36489432309792
GCTCTTTACTCA	804.853969894275	0.126865361814088
AAGTGATTACTC	804.861603527019	0.256177844426183
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GACCCAAGTGAC	804.900319777651	0.200105797576493
CAGTCTGACGCG	804.900796729659	0.16974041745361
ACGTGTCAGAGT	804.936058195984	0.256185260494008
ATAACACATCAT	804.936248645514	0.229403924430971
GTCACCATGATA	804.944986143264	0.372239037184111
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AATCGTGTGACA	804.953840095486	0.192790689592814
AAATTACGCACT	804.959069684698	0.290635810803421
GACACATTTCTA	804.976096056955	0.364034123401249
AGTCACGGACCG	804.986363814495	0.194266650357007
ATAACAGTCAAC	804.991534836384	0.141227848772118
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AGTCAGTAATGA	805.050150560007	0.276791206856053
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CAACCCGGTGAC	805.120674752635	0.287555311284926
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ATTACACGTAAC	806.493258387348	0.277023320558318
TAATGATAGTCA	806.503446939581	0.22737695454503
ATGACTTGACAA	806.519858686172	0.226351104063305
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GGCGATTATCA	806.524470881005	0.283969620760354
GTCACTCCCTGA	806.525494805313	0.193403029573751
ACGTGAATGAGT	806.526305548028	0.217462117382734
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GTCACAAA ACTA	806.533114859674	0.212371121094758
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AGACTGCAGTCA	806.549758316769	0.301301900606803
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CATGTCACATGG	806.568259216653	0.326766763451786
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CGTTTGAATGAC	806.57268166139	0.195302682017644
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TAGTATGATACA	806.577224871023	0.186665121587859
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GTCACGAACTTA	806.605775947127	0.294927898452857
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AGCCATTGCTCA	806.663533895147	0.196877330826223
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ATAATGTCACCC	806.679692426939	0.237130828547675
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TGTCACATTAATA	807.99270864661	0.249381216196118
GTTTGACTATGA	807.993074587504	0.245139471389766
GTCACTACCGAA	807.999684904909	0.26247732566629
CGGTCTCCGTCA	808.005502123612	0.374326738376616
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TATACTGTCACA	808.018862110599	0.0880357707459803
AAGAAATGACAA	808.036695349703	0.175097250471511
GAATTAGCCATA	808.041795673868	0.1877633144758
AGGGCAGATGAC	808.043993577766	0.0747108381706546
AGATAGCAGTCA	808.05207750227	0.248770441370761
ATGACAAGGTGG	808.054763657722	0.167975206847618
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AGGTAAGTGAC	808.061040777141	0.339839844988894
AAGGTCGGTGAC	808.06471114776	0.199926028781714
GTATGTGCTTA	808.074618387078	0.295704081041334
AGCCATGACAGA	808.093787080515	0.300617338763468
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GCTATTTTGTC	808.106959401752	0.25202617650875
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ACTCATCCTGTA	808.114177450722	0.195780890931751
ATGCTGTCACGA	808.115344373174	0.299495684199855
ACTCATTCTCA	808.117115079001	0.232690914759365
GTCACTCGTGGA	808.125739001168	0.340122436814697
ACTCATCAATTG	808.125928654451	0.298264021562049
CAGTCAACTAGG	808.132806452305	0.31187040046555
ACTAATCTGACA	808.133706331201	0.186146567574305
CAGTCAGGGTCA	808.136353575075	0.253772560532736
GTCATTATGCCA	808.14105379739	0.259976919746376
GAGTTATGAGTA	808.144489973629	0.266874303779364
GGTCGTGACCCA	808.145809254168	0.193322987300629
AGTATAATGACG	808.146643227669	0.241409179666278

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GTCACATCTGTA	808.185362958909	0.268181109613582
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TGACGACATTAA	808.279599910454	0.202033186552255
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AGGGTAAATGAC	809.808637054025	0.145953635798321
ACTTACATGACA	809.813671047926	0.211900544424816
ATATGATGACCC	809.81593077793	0.25523912143195
AGACTAATGTAC	809.827756845594	0.267963303732325
AATGATGGTGAC	809.830263003484	0.172159551795069
GTGACACCGTGA	809.831087338738	0.211452187808879
AAAATACGTAAT	809.832944517929	0.250561473818684
ATGACCGCAAAT	809.834866325943	0.288272341123256
CTGCATCTGTCA	809.838133084561	0.26670658799554
CACAAGTCATCC	809.856554161065	0.183328749027457
GCACCGATGACC	809.86020314395	0.168247261411591
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AGCGGTGACAA	809.876086856428	0.223344622876177
TGACGATGTCAA	809.878130515067	0.193606030302962
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TGACATATGTAA	809.885693865817	0.340082517325206
AATGGTATGAGT	809.891286034014	0.184050008414865
GCGTCACGCAGC	809.892508235487	0.289769272829727
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GCCTGATGACCA	809.913779996755	0.290031051032797
TGACATATAGCA	809.921918185175	0.397752854383301
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GACTGATCTACA	809.925240817409	0.246544128978682
GTCACCTCCGTA	809.941153522518	0.188207615341713
AGTCTGACTCA	809.96070848217	0.187107573201914

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TGACGAGCTAA	809.980496771134	0.210361908820102
ATCGATTTAGTC	809.981156829383	0.352044500840288
GTGACACTCTGA	809.985570190041	0.215710423856618
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GCTGACACTTCA	809.992323763368	0.265778629831187
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AGTCAGAGCTCC	809.995695374225	0.290037169989678
TCATAGCGCGAA	810.001888420407	0.337575370625674
AGGGGTCATAGC	810.007794113493	0.149221410713627
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TAGCGTGAGCCA	810.013650655244	0.235898808378536
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GTCATTTTGCCA	810.311106472341	0.262046830319049
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GTCATTATGGGA	810.391750736734	0.21293937756096
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GTATCCATGTCA	811.533601449286	0.192349789212285
ATACCACATGAC	811.539438413906	0.261800825401314
ATGACAAGGCCG	811.545618850608	0.308552333347503
TGACTACTGCCA	811.546582667929	0.262503059428149
TACTTGACTCGA	811.549012435159	0.215990660104572
TTAGCATGACAA	811.551714011356	0.266062956893785
ACCCGACAGTCA	811.553286355406	0.242964642453657
GGCACTGTCACA	811.554111518686	0.214920682110596
AGCGAATGACCA	811.561984548968	0.32818153303899
AAATGAGCCAAC	811.568178080156	0.16376198281225
ATGTGACAGTAC	811.574936593014	0.21120583400406
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GTATTGCATCAC	811.652342274819	0.132869249561067

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GTCACCTCGAAC	811.666482480283	0.462802663628973
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GTCATATGGAAA	811.719619097298	0.324344413611546
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ACCATGTGACAA	813.205265544316	0.25215921239089
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AGTGATGAGCCA	813.220886529326	0.333804910884651
ATGACAACGCTC	813.222084053834	0.252349703469683
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AGTCTGGAGTCA	813.227358368142	0.194547835080601
CACGCGAGTCAG	813.22754796513	0.217935398519991
GGTCGACGTAC	813.230840134942	0.177305118679372
GTA CTGTACCA	813.233276082477	0.228284484973992
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AATGACGTCTCT	814.851147979183	0.187183314303649
ATATGCCTCATA	814.855758513579	0.219821642789087
CATTGATGACCC	814.861249290413	0.271015524571431
ACTTAAGTGACA	814.864484456511	0.347854472205286
ATGACCTAATCA	814.86662700798	0.189342154935439
TACGACATGACA	814.887115249638	0.171874564795629
AAGCTAATGACA	814.89036348816	0.291621490643126
CATTGACTGTTA	814.899736864273	0.226954133893506
TATGAGTGACATA	814.906826094332	0.260865338782241
GTGAGCGAGTCA	814.90879821559	0.288553237508503
GTCACCACTACA	814.919454867191	0.151071147451525
CCTAGTGACGGA	814.92012458003	0.392071079817403
AGTCGGAATGAC	814.935620135133	0.151104663117138
AGTCAGACAGTA	814.936671564887	0.164335464724059
CAATGTCTGTCA	814.939459674512	0.256892672241532
GCCACGCGTGAC	814.946258500111	0.160010898485552
CGTCACTCAGGA	814.949044139956	0.302940458017079
AGCATGTGACGC	814.96054550642	0.2167904282536
CACGGTTGGTCA	814.963624285672	0.418722148034134
AGTACTCACACT	814.967959153248	0.200641088528592
ACCTACATGTCA	814.986721117461	0.268450097136812
CAGCTTGACACA	814.99079538073	0.197067779387634
GGTGACTTCACA	814.991689686879	0.315255931431473
AACAGTCAATGT	814.994976477656	0.206376532090286
GTCATGCGTACA	815.003534743479	0.274080388786817
TCGAGTCTGTCA	815.01934577927	0.283508483958145
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ATATGACCCCTA	815.026539921411	0.249305122963447
ATGACAATCATA	815.028102067998	0.359949260113514
ATGACGTCGCCG	815.028680730865	0.178879105872976
GTCATTAGCACA	815.042406657858	0.282517515757724
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AGGGATCGTCAT	815.054165519892	0.19729852647857
CGATGATGCACA	815.078786072225	0.302141236311033
ACTCATACGGTA	815.080104425455	0.212687351598285
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CTTCGTGACCCA	815.112392637334	0.187049852723341
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CTCAAAGTTGAC	815.148411647197	0.275100209910125
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CACCCGTGTGAC	815.156748833009	0.306548031647123
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GTCACGCGTTCA	815.183245428962	0.252988974859404
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GTCATTTGAATA	815.336500159656	0.311342034897629
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GTCACAGGCAGA	815.377290033382	0.172355547355756
ATAGAAGTGTC	815.381553117307	0.214286676932779
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TCGGGTGACCCA	816.343899836196	0.227156272153679
ACTTTGTACTCA	816.344720403249	0.237696950873978
CATACCTGACTA	816.357919273366	0.277962030861992
TATCAGTGACGA	816.362463372773	0.31669789434156
GACTCGGTCAATC	816.367540966377	0.27331264854706
ATATCATGTCAT	816.382170859169	0.251354032349276
TCGATTTGTCAA	816.383149733358	0.323809745412365
ACCCATCGTCAT	816.391388385602	0.170538210809256
AGTCACGAGGAC	816.391502001698	0.303207753407597
CAGAAGTGACAC	816.392026689309	0.131566158227479
GGCGACGATGAC	816.407924819424	0.275534655738434
CATGACCCAGTC	816.411768084788	0.132341680766968
ATCCACGACTCA	816.412834012953	0.217395340116483
CACTCGAATGAC	816.419508510329	0.225230542149048
AGCATTTGTGAC	816.421940563376	0.280324590971356
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GAATTACGCAAC	816.425647217782	0.304295064206332
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GAATGAGTTGTC	816.441891306095	0.193570499760182
GTATGACCGCGA	816.445812052441	0.228373890793511
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AGACCTGGTGAC	816.468132476756	0.248519127097065
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GTCGTGACAAAC	816.47468674367	0.176838311228159
ATTTGCAGTCAG	816.474856861648	0.186042629331667
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AAAATGGGTGAC	816.478723656031	0.212896244436278
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GCCATAAGTGAC	816.494700902581	0.163911180518249
ATACTGTACAT	816.496834205018	0.205235947641866
GTACGCGAGTCA	816.500291179204	0.265663525821981
GTCAGGCTCATA	816.50466566286	0.281867352812019
AGTCAGTGCGTC	816.505369384065	0.25222449281644
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GCGCTTGGTCAC	816.5127476886	0.140617142769491
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GAGTCAAATAGA	816.529174259151	0.197477534091169
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GATGCTATGACC	816.919913718813	0.216698118455081
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CATTAACATGAC	816.955464840231	0.213717202829993
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GCGAGTGACGAA	817.016185257287	0.17012849028955
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GTC AACCCGTCA	817.046993176454	0.12084972233281
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ACTAATAGGTCA	817.134427987853	0.26064834186157
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ACGTCATGTACA	817.277519813488	0.196616628047131
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GAGCACAATGAC	817.386715269813	0.284117671430522
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ACCCAATGACAG	818.121303954101	0.276591081242146
ACACGTCAACAT	818.123057654359	0.282723311886312
GTCACATGCGGA	818.128759641867	0.211713234474759
AAATTACGCGTC	818.128861303315	0.275798549316993
CAGTGTCACGCG	818.131195586609	0.239758005639571
GAACGACATGAC	818.13653918953	0.244995942455059
ATTACGTACTCA	818.138153021875	0.258162688848258
CCGTCATCTGAG	818.141122201615	0.165587875694858
CCAGCCTGACTC	818.149946369312	0.235128112862272
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GCCATTTGTGAC	818.15594833333	0.231752525937182
TACGTAATAATA	818.156961102345	0.20479602236253
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GAGTAACGTCAC	818.161480351862	0.380797821761482
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ACTGAAGTGACT	818.18969051968	0.143760300339473
GGTGACGTTGTA	818.190706348198	0.164852917941638
GAATCACCGACA	818.19281041174	0.296787678004552
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AGGTGGTGTGAC	818.196352738684	0.148798350835458
GTCATGATGGAA	818.196821528226	0.24714887028087
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GATTCTGACTA	818.221526728582	0.183487055573312
GTCATATGGAGA	818.221584889317	0.199038588842456
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CATGACCGTGAC	818.270515092186	0.15203091771237
ATGAGAGAGTCA	818.27763093004	0.219709761397312
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GAAGCTGGTGAC	818.292198052412	0.206204963533011
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CAGCTAGTCACG	818.312023588944	0.223966746963457
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CCAATATGAATC	818.374719362461	0.242226525406043
GACGGGTCATAA	818.383285675897	0.177692950506292
CGTCACGTTTTA	818.414184314157	0.294834345566239
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GCTCTGAGTCGA	818.466122926453	0.212416689120744
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AGTCAGAGTCGG	819.848780029192	0.195405198612678
ACACCCCGTCAT	819.849875303159	0.239252170960352
ACTCATAGACTC	819.855118189589	0.308027012644961
GGATGGACTCAC	819.884894706634	0.273800357413254
ATCTGGTGACAA	819.886843723311	0.197590020128333
GTCATTAAGTAA	819.894023850054	0.269255169168416
ACTCATCAGATC	819.895480334555	0.199423492696074
ACTCAGTGACAA	819.895701965486	0.243574249828437
GGGGTTTACTCA	819.90040823474	0.234410707078179
CGATGATTCGAA	819.900623272587	0.268911100767505
ACGTCACCTGGCA	819.903013424359	0.224086075276123
ACTGAAGGTGAC	819.905247398918	0.188352247482226
GCAATAAGTGAC	819.905649099029	0.183727915421447
TCATAGATTCGA	819.908788386369	0.243403501326858
ACTAGGTAGTCA	819.909795391853	0.298957325891078
ATGACCCGTA CTG	819.91193052709	0.216488054216279
TATCGGTAGTCA	819.913418838925	0.203151570885082
AGTCAGAGAACT	819.916494951665	0.140943913083675
CGTCATTGGAAA	819.924577977082	0.169041610833486
ACGTCACGATAC	819.928936551066	0.315171434547406
GTCACGCACGAC	819.933236773717	0.288502394857795
GACTCAGTCCCA	819.933366986975	0.14546270348623
GATCCTGACACA	819.941072842531	0.174631406991321
GCACAGACTCAC	819.946748027808	0.187690939214904
GCGGTTTCGTCA	819.954457121266	0.261963425143204
GTGACCACGTTA	819.954514831436	0.351361696506
GCGATCAGTGAC	819.958628852266	0.268066496069223
ACACCGACTAAT	819.975703190253	0.206152993947798
AGAGTTATGACC	819.978131911452	0.355219920708653
CAATAAGTGTC A	819.985590576149	0.222978980308895
ATTCACTGACTG	819.986401187016	0.340021732131983
ATTAGTAAATGA	819.98680967719	0.174800065881043
CTGACGACTCAG	819.987029032113	0.258499230293015
AGTGAACGTCAT	819.98764558511	0.25065825868394
ATAAGTGGGTCA	819.993068733567	0.209714971438837
CGGGTTGATGAC	819.994764782604	0.222457371863498
CCCCGCGAGTCA	819.998717313427	0.271136188202268
CGACGTGACCCA	820.000552187753	0.25627198572045
CTTACTTGTGAC	820.000587621567	0.2904295865368
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AATTCGACTCAG	820.009489905125	0.185106414246909
GAGATTGACTGA	820.015718858073	0.294502522352747

GCTGTCACATGA	820.023897735551	0.234731826125544
GGTCATACGATA	820.033163683358	0.185981087433513
ATGCTGCGTCAA	820.048186578637	0.206577644314589
TAGTCAGCAGAA	820.051204237223	0.337007781162214
ACTGGCTGACTA	820.056386372136	0.200870449904026
AACGCAATGAGT	820.056976286133	0.310820690196334
GACGAACGTGAC	820.058814549917	0.2098697093046
ATACGGGATGAC	820.058940294398	0.242508853186739
ACGTCTGTCATG	820.067942541306	0.235564281432656
CTTACCAAGTCA	820.079587829247	0.219022336598775
AAAACGTGTGAG	820.082437371123	0.228532769592475
TAAAACATGTCA	820.085940863083	0.196628880247483
TGTCACATAAAA	820.086581362111	0.181250506073565
CCTGCATGACAA	820.086998466213	0.268332693198301
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CATGACATTTTC	820.100741126063	0.147191382930524
GTCACAGTGGAA	820.102141464747	0.220817484243096
GGTGACACGGCA	820.102691023163	0.181477918389353
TCACATGAATGA	820.104036222332	0.249960084692321
GTCATTCTGGTA	820.10594697028	0.231648292312959
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ACTCATTCCGTA	820.117431065953	0.189466142877802
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ACGTGACAGCAT	820.118854528082	0.285456202934632
CTCGCTGATGAC	820.124775591466	0.27496315800459
GTCCTCTAGTCA	820.126059456759	0.197321044277715
AGATGAAGTCAC	820.127891414724	0.19105302819386
ATGAGCCAACAT	820.131521518892	0.236363294178475
ACCATATGACGG	820.133637556617	0.269308654754588
ATCCTGGTCATC	820.139524120186	0.194471739642848
GCTACCGTGTC	820.146398648754	0.294445907343012
AGTCAGAACGAA	820.147425546535	0.231380244451996
ATGAGTCTCTAC	820.149394273213	0.218267000139687
GGATTAGTCCTA	820.15557632953	0.151737761917875
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CGTCATTCCGGC	820.180916390103	0.278620363607019
CGTGACTTGGCC	820.184915155163	0.228884520768779
GTCATGCGGTGA	820.190665001159	0.441184745949821
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AAGTCAGAAGTC	820.196322793651	0.214389577168837
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CCTCTAAATGAC	820.20902149307	0.210745258212606
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CCTGTGGGTGAC	820.217283321285	0.284061843079455
GATTTTCGTGAC	820.220977316953	0.263230020552124
CGGTACACATCA	820.222894934476	0.218161987498492
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CGTCACATGTGC	820.225110176348	0.187761143421738
ACGTCACTTAGA	820.233137058627	0.187140454853368
TGATGCAACACA	820.234022437932	0.248466433733912
GCCACCAATGAC	820.235410796971	0.24436933747592
AGTCACGGGCC	820.238168255615	0.234283953144975

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GTGACCACGAAA	820.249828164142	0.233481085292007
ACGTCAGTATGA	820.252332826544	0.251119240831688
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ATTCGGCATGAC	820.264078646153	0.185538904140134
GACTAATCCGCC	820.2664312206	0.251175238434975
TCAATTCGGTCA	820.268066961767	0.295070937319255
CACCCTAATGAC	820.276120131019	0.197583354701613
AAAACGGTCACA	820.280117546683	0.262851264813665
GACTCCGATTTA	820.283932436977	0.218040969849686
ATTCACGTGACG	820.286778243038	0.197303894291727
GATGACTTGCAA	820.288689859926	0.166634390922608
CTAACGCATGAC	820.292127402778	0.195787069104937
TCGAAATGACAA	820.293281101843	0.262595020107116
ACGCTTGACTCT	820.294000991646	0.259648116133445
GTCATGTTCCGA	820.295666593493	0.195779249482125
CATAATGAGCCA	820.296077044338	0.428662179151289
GGTCATCTATA	820.310255920841	0.253492546531339
AGCTGACTTAAT	820.310924530845	0.288639925880031
GCACTCTTTTA	820.311669126296	0.195352222204702
AAAAGAATCATA	820.313365662641	0.233793674999118
ACTAACTGACTA	820.334515081924	0.203372489064098
AGACTCACTTGA	820.34752868281	0.241657552007269
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ACTGGTACGTCA	820.354513289721	0.31421882083411
GACTCACGTGAA	820.356938785109	0.270864655041302
ACGTGACACTGA	820.361379349836	0.279625009121815
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GTGACCTACTCA	820.371795136136	0.268512539307063
ATGACAAGGAGA	820.37475156073	0.18447871390289
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AAGTCCCAGTCA	820.386579307784	0.183191571918804
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GTCACCACAAAC	820.425636414477	0.316972767220394
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GATCGACGTAC	820.441465222345	0.186564714243694
ACTAGTACGTCA	820.444164131492	0.271920518779277
CACGGTGAGCAA	820.450414239074	0.254943965400232
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AAGCGTGATTCA	820.453890865415	0.333031093015947
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ACAGTGATGAGT	820.471727434502	0.192495692495259

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CGTCATCCCAAC	820.476980358305	0.199741106141288
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CACATCATATAG	820.484045771672	0.260771845134738
GTCAGATGACA	820.485489322949	0.23850471956908
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GAGTGCCTAATC	820.530540975987	0.224429467033608
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TGAGTACAAGCA	820.551786025219	0.301022564383941
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GACGATTCTGAC	820.682743338854	0.217695891357693
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CAGTACGACTAA	820.739528362461	0.262344069603529
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GTCATATGGATA	820.812989584163	0.238160367069771
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CAGTCTATGTCA	820.830785545776	0.221703739857571
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CGAGTCAAACGA	820.836882012777	0.245564023520606
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GTC AATACATGA	820.844811646965	0.313236358772878
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GACCCATGACAA	821.008409087366	0.239340984446541
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AGTCAGCGTTAC	821.16694128904	0.212626183586707
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CAGCGAATGACG	821.184554389673	0.268272356502287
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CCTCGTGTGACG	821.218911944063	0.184368806018063
AGTCACGACCAA	821.219130312445	0.263123952442471
ATGAGCTGGTCA	821.224320250792	0.211133872537377
AAACACGTCAAT	821.224492212125	0.146759091683479
AATTGCGACTCA	821.234707835721	0.120695387842002
TACCCATAGTCA	821.236087136524	0.195177667648828
CCCGGGGTGACG	821.236813787565	0.285920153888248
ATCAATCGATGA	821.248627529366	0.373052705968624
TCGTTGGTGACA	821.253361554823	0.212446848599485
ATCGTTGTACC	821.254645842007	0.220819731824652
CTACTGTGACGA	821.256741048563	0.185468110747041
TCACTAGTGACA	821.259929609545	0.181349601977164
CAAGGGTCTGAC	821.266405808026	0.206911309457512
CCCTGACAGTCA	821.268915345583	0.26347300428909
ATTGGCAGTCAC	821.274181875314	0.293687186321783
CGGTGACGATGC	821.281050907477	0.196415867681996
TGACTACCATCA	821.295670518307	0.236493088868565
AGTCAGAAAATG	821.301080521486	0.230229527076773
ATGACAGTGAGA	821.305938160427	0.195346128405587
CCCATTGGGTCA	821.310391990091	0.282327194900429
ACGTCACCTGAGG	821.314775105978	0.210440946014932
GTAGACTAACAC	821.317207481764	0.273854213458252
TCGATGAGCCAA	821.321170960782	0.200897660858223
CGACGATTACTC	821.328210513372	0.200923045785343
GATTACGCAAGA	821.328790372094	0.158326826838341
GTATGCGAGTCA	821.329854783742	0.211354277109819
ATGGATTAGTCG	821.332096206349	0.215255982127583
ACTATGTGACCA	821.333021166957	0.183279241599525
CTGCCCTAGTCA	821.337452468643	0.271260057085583
ATGACAAGGCAG	821.345178746791	0.227241531560838
GATGACCCCTAC	821.353077892255	0.199597775807519
GTCACCATCAAA	821.357364729638	0.318966179680212
TACGCTTCGTCA	821.364594083439	0.359869408016026
TAGATTGAATCA	821.368680075361	0.178533123251827
TTGCTGTGACAA	821.368995405993	0.247888343751315
AGCAAATGACAT	821.370111348802	0.208232401224721
CGTCCCACGTCA	821.378756406898	0.220715569826283
GACTAATCGGGA	821.391116769237	0.255479544160002
AGTAACCATGAC	821.396955500774	0.191761597604551
CTTATCGTCACC	821.411682257336	0.18270530962234
ACCTGACTCGGA	821.415123017668	0.298774095821974
CGTAGTGACATA	821.416491805301	0.222556827194279
AGCCTCTGTCAT	821.431529409575	0.129453664295344
ACGTCAGATCTG	821.433886750771	0.173022502000063
ATGACAATCAGC	821.436792921998	0.302101137494475
GTCAGACTTTCA	821.440339519289	0.291028032112155
GAAAGTTGTGAC	821.441244936936	0.129406608142213
AACCCGAATGAC	821.442114762606	0.260863096272272

GGTGGTGACCCA	821.449402007545	0.155326960654056
AGTCAGCTTACG	821.452558480328	0.330973174267516
AAGTGACGCGGT	821.468736004012	0.191137712078369
GTCGCAGTCAGA	821.469640677458	0.197817540011908
CTGTCATTATAA	821.472080780081	0.221332938982556
CGCTCGAGTCAA	821.473151930703	0.217204512790536
GAGTGAGTCCAC	821.477627989417	0.213189610449897
CGGCTTCTGACA	821.487623278528	0.270545881450808
ATGACGACCCAG	821.491729874816	0.264215731434931
TAGAAGTAGTCA	821.503227802609	0.209978955451324
TAATCCATGTCA	821.506514926711	0.244021462919342
AAATGTCTGTCA	821.512049037964	0.192353142692595
CTGACTCGGATC	821.520788031826	0.182330935657327
GAATGAGCCAAC	821.532524677049	0.152866137575617
ATATGGTCATTG	821.533388583884	0.128461163419515
ACGTTGATGACC	821.534982017083	0.246561929919231
TGTCACAACATA	821.537035389519	0.226540357404141
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ATTGCGTGAGTC	821.542282070935	0.268640919354284
CGTCACGATAGC	821.54439798824	0.312270305855762
AAGTGACGTGAT	821.552169739027	0.180508270656428
TAATGTGGCTCA	821.556716557789	0.204542274355014
CCTAGCAGTGAC	821.558196369782	0.196387425953924
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TCAGACATGACA	821.562830666556	0.304447249072784
ATGACTTCGGAA	821.563874081426	0.188266770517259
ATGAAAGGTGAC	821.571270315747	0.239338936781941
ATGTGAGGTGAC	821.572666964768	0.286642831350651
CTGAGTCGCAAA	821.575773797915	0.222737276874508
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CAGTAGCGTGAC	821.593814265632	0.257525613874405
TACAGTGACGAA	821.596728449955	0.244682151596109
ACTGGCATGACA	821.606842738502	0.228671897886784
CGAGTCAGGGAA	821.622674903631	0.171752624203865
CGCCATAAGTCA	821.624374763664	0.181357882726639
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GTAATTCATGAC	821.628719772985	0.227256267998506
ATCACATGACGC	821.636484837168	0.204559726869179
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GATCCGTGTAC	821.661137609086	0.304021122176049
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ACTGGTATGACC	821.66792213271	0.277053906203109
TTCTTGACTAAA	821.66836722737	0.271504839719717
ATGCAGTCAGTC	821.671293828413	0.171121048464665
ATTACTGACTGC	821.675442302169	0.314478763431797
CAAGCGTAGTCA	821.677902597139	0.211085538344347
CAGGATTAGTCG	821.693871610029	0.272766355266604
TGAGTCTGCGAA	821.697486825631	0.233158035720048
TCATGTGGGTCA	821.700676538953	0.135019885874433
GTGACAGCATGA	821.704109377215	0.265294728019596
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ACTTTACGTGAC	821.706765776602	0.149295589741578
AGTATTAGTCTG	821.7115899604	0.185640856717975
ATTAGACGTCAC	821.715635983051	0.21826984828053
AGGACTAATCGC	821.725851499217	0.244380799158742
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GTCACATACCCA	821.735205173612	0.259551207202764
CTGACTGGGATC	821.738022294092	0.286620526320328
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GACTCACGATGC	821.745144952553	0.291027163769166
CGACTCACGAGC	821.749000600032	0.186000596783979
CATGTGTTAGTC	821.754533656458	0.20837690815443
GACGATAATGAC	821.758164021866	0.25193441487112
ACCATTTTGTCA	821.761418988166	0.272525402434115
TGAGTCGGCCAA	821.764287885238	0.21536393665265
GTAGTAGACTCA	821.764942379962	0.205923709205751
ACTATTACGTAC	821.777095788949	0.238278289641095
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ACTAAGATTCAT	821.803344433111	0.211172775339544
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GAGTATACTCAC	821.819645257547	0.246616081513118
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CTGAGTCTACCA	821.854911817635	0.223005164851835
AGAGTAATTTGA	821.858542078758	0.180335589833543
GTCACTCAATAA	821.863259516713	0.289795339196437
AATGTCATTGGA	821.870242378837	0.211182895046565
TCAAGTACGTCA	821.874331473241	0.22902537557387
AGTCAGCGCGAA	821.883036448898	0.253441428850399
GCACTTGACGCA	821.887867578539	0.219920820521656
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AGTCAGTAGACA	821.896281846382	0.308758983735295
GTGACTTGGTTA	821.900920979721	0.277955450456826
GTGACATGGACA	821.904568748711	0.258353422112424
AGGTGAGTATAT	821.9074105466	0.192439147714534
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AATGTATCACAC	821.927592252563	0.124971539487177
AAACTTGCTCAC	821.965223053145	0.128157104235711
GATGACGCCGTA	821.976406391719	0.153960241100518
ATGAGCAACGGA	821.977493446945	0.218664934769147
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ACTTCTAATGAC	822.00295680148	0.197804616003356
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GAGTAATAACGC	822.003924446169	0.373832323468288
AATTCGAGTAAT	822.009375374362	0.153494969261494
GCCGAGGGTGAC	822.009768578963	0.214979109799484
GTCATCCATGAA	822.032542316394	0.270456341041745
GTACACGTAAGA	822.033720524194	0.26133784635876
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GCGACCGGTGAC	822.055461756742	0.228165456437305
CGTCACACGTTA	822.056652787125	0.207647623922367
ATGACCTGACGC	822.059489560338	0.250797049448807

ACTGTCACCGGA	822.061258877393	0.225099764304064
ACTGGCAGTCAC	822.063489529673	0.307990375362579
GGTTTGC GTGAC	822.063628083167	0.231822753574924
GACTAATTGACA	822.066422143368	0.218227745621144
AGATGTGACGTC	822.070065216861	0.246761796076827
ATAGGACATGAC	822.070920744606	0.187162423559044
CACATCATCGAG	822.077934364114	0.200318901141642
ATGACC ACTGTA	822.082964927487	0.218715797515392
ATAGGCTCATCG	822.08742364276	0.421618526781795
CAATATTGAGTC	822.095098864221	0.239557908493212
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CGATTAATCACA	822.098893439565	0.264301892439242
CACACCTGTGAC	822.101683398073	0.258597737088548
CTGAATGACCAC	822.104778316482	0.263292968981383
GTCACAATTATA	822.104944156241	0.183786457039831
GTCATTGTTGGA	822.106720630622	0.187406253849734
AAGTTT GATGAC	822.11238613127	0.204715127166789
CTGTGGCGTCAC	822.113875559846	0.243302987556001
ATCCGTGACGAA	822.115201739694	0.223694632030026
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ATGGA ACTGTCA	822.138499003831	0.315770466843053
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AGCGTCACTACG	822.157332158057	0.278693172814028
GTCGTCAACCGTA	822.161127483685	0.308673933633668
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CGCAAATGGTCA	822.165143332701	0.240361149423521
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ACAATTAGTACG	822.177137948509	0.240561302780497
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AAAACGCGTCAG	822.179667943011	0.179789504135821
ATGAGCAGTCAG	822.181117503633	0.184474034506324
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CAGCATGAGCAA	822.187802291561	0.249912724941823
CCAAACTACTCA	822.206372675187	0.195384424353497
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GACTCACGTTCA	822.235840509677	0.336764830835161
AGACCGGTGAC	822.242093692206	0.201532242406183
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ACTATTACTGTG	822.271274558337	0.251040167391081
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GAAAGAGATGAC	822.286748474017	0.184342389268547
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GGTGACGACTAA	822.317443326109	0.195712303169873
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AGCGTCACGATG	822.328776312535	0.27386816220045
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ATGACGGGGCTA	822.347491295507	0.178440261867603
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GCTTGGGTGACA	822.360513448492	0.338791991712611
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ACTCATTCCGGA	822.380944161558	0.306990327174294
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ATTAGCCATAAT	822.383856802542	0.200252705772613
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CTGTCTTGTGAC	822.394149654159	0.251728831063633
AAGTCGTCACTC	822.403996626376	0.232065710995054
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AAGCATTGGTCA	822.435148295479	0.231908511448188
AAAAGTGACCCA	822.439852765048	0.205816562599735
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CACATGTATACA	822.442811565708	0.306315823655937
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AGTCAGACTGGC	822.472077157547	0.267995337903601
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GAATGTGTCTTA	822.591797274388	0.262453397465891
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GTCATTGCAAAC	822.63534999428	0.151133319550668
AAATTATGAATC	822.641762665079	0.234200996362966
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TGCGTAATCTAA	822.698741701754	0.299431079791984
AGCATAGACTCA	822.705836823406	0.330307774354975
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ATCCGCTGTCAT	822.707358704372	0.198965158209694
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GCTAAGCATGAC	822.725830849152	0.252575604155841
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ACTCATACAAGA	822.741321382906	0.249293786456952
ACAGAGACTCAT	822.743830842575	0.169941431598941
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ATCCCAGGTGAC	822.762332229481	0.257582494030984
TAAGTATACTCA	822.776124179939	0.159639689142167
ATACAGACTCAC	822.78974893904	0.248230129629108
AAGGAAGTGTC	822.798328962977	0.149456223381411
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GTCACGTGAGCA	822.826992776937	0.252149282497054
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ACTCATACAGTC	822.844304367872	0.230689847513448
GTCAGACGTTGA	822.858758600201	0.19184809212773
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ACAGGGTGACGA	822.861431415628	0.255935540125692

GCAAATAATGAC	822.863892759081	0.314264994932158
AGCCTATAGTCA	822.865134392019	0.363896265807771
CTGACTCCGCGC	822.874613678024	0.115964797952725
ATGTATTAGTCC	822.879456809611	0.227210851884404
ATGCGTCTTACG	822.881026936981	0.195893957998824
TCATACTTTAGA	822.883509245267	0.292883399208687
CACACTGTGACG	822.887293703249	0.14972054298766
CCCTGTACGTCA	822.893322804533	0.139806073977663
AGGGATGGGTCA	822.894736945834	0.225211912632419
CAGACGCTATGA	822.895617642318	0.22817359173814
AATGACCGAACC	822.897230879808	0.187982978472611
ACGATCATGACA	822.899782268752	0.335476251021788
ATTCTGTGACAA	822.902750293381	0.182828381134153
ACATGACCGCGC	822.927893834343	0.240053185361642
TGCATAATGACA	822.934151565758	0.210819226330523
AGTGTTTTGTCA	822.944123116718	0.232571055780123
GCTTTAATGACA	822.954062309704	0.22919592162793
ATGCGCGAGTCA	822.95664898724	0.201645792952546
ATGAGTAGGGTC	822.960711169333	0.127425157203713
ATAGTCAGGTAC	822.9639533021	0.192715243045661
AGTCACGGGAC	822.966766109086	0.233708711946352
CTGTCACAAATGA	822.982098080938	0.13044252390662
CGCTGATGATGA	822.985240006723	0.292016222139257
ATACAGTAGTCA	822.985971045405	0.184264871226769
ACCTGCCAGTCA	822.986751148135	0.22106468572551
TCATGTCACGGA	823.012012656356	0.236539858174875
AGAAATGACATC	823.012870083843	0.27923712467279
AGGTGCGACTCA	823.013890823381	0.205446287824857
GGAGAATGTGAC	823.035449407143	0.19849679681074
AAGTCAGAGCAC	823.036587902094	0.219806425478069
TCATCTGACAAA	823.040629023716	0.20268505465858
ATGACACTCCCC	823.041695520276	0.139340556204745
ATGAGTTAGCCA	823.049411963441	0.239499449977246
CTTCGATAGAAA	823.051512527674	0.230142252273415
CGTGACACTGAA	823.0573819235	0.201183306833031
GGTGATCCGTCA	823.05892776841	0.319813957136324
TCACTCAGTCAA	823.061128052383	0.141088905773768
CTCACGTAGTGA	823.0625691448	0.254053784520343
AAGACTGACT	823.067154300735	0.165284243253239
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ACATTGACACAC	823.071183017518	0.217987654671484
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ATAGTCAGGTTT	823.082253281324	0.240489870256726
ACGTCACGCGCA	823.082309994685	0.141745892651883
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GTCTATTACTGA	823.100721630969	0.267061305520638
TAGAGAGAGTCA	823.110846445175	0.260230623357241
ACCGTCATTGAC	823.111651882694	0.227730343237548
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TCAATCGTGACA	823.117116369305	0.257394329310098
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CAATATATGACC	823.169765666038	0.243555656884314
GTCATTGTCCGA	823.174073504036	0.18014377517236
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GAGTAATTAATC	823.250521885767	0.261502236194972
CGTCACCAGCTA	823.256533661283	0.225350188551366
GCGTGACGCGCA	823.261180787719	0.200580946606492
CCCAAAGATGAC	823.262851663831	0.265961543092734
CTCGTGTGTCAA	823.26954747708	0.334753604435806
GGGTCTCATGAC	823.272461260675	0.183512789815353
GTGACGCCACTA	823.288645699566	0.248020455878766
TCTGATCGGTCA	823.288766904831	0.242606035125964
ATTAGTAAATGC	823.289344895364	0.242866510147403
CCTACCGTCATA	823.290258707189	0.187224369094998
ATAACGGGTGAC	823.295502911329	0.167819463307234
ACTAATTGTGAC	823.306344160478	0.263107140632413
CGGTGTCACGTA	823.308958828756	0.253491321577202
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CCCCTGAGTAA	823.330114674253	0.252320772243818
TGACGCTTTGCA	823.346377781802	0.281881147688038
GTCATGATCGTA	823.360932396618	0.266510132778582
ACTGACGAAATG	823.373750190068	0.153413220468007
ATCGCCGTCATC	823.387943192349	0.213590414554011
CCGTCATCTAAG	823.389122013166	0.207625057626983
AATCTTGACGCA	823.39781869978	0.147696835073984
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GTACGTGTGACA	823.402703312943	0.199591013034996
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GTAATAATACCA	823.405138463274	0.194039949552596
GAGGATGGGTCA	823.406506971394	0.248319404472453
GTCACCTCTCTA	823.413633048093	0.196999185914503
AGTGGCTCACAC	823.417885330073	0.347469407635693
GCCGCCGACTCA	823.428959740668	0.398715019855867
CCTCATTCTGCA	823.436946388732	0.137614494458508
GTCACACACCCA	823.441983763551	0.259110310765345

GAGTACCCGTCA	823.443987903401	0.190000567758437
TGACGGGTCAAA	823.460726528995	0.226819578160715
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CGATGATCCATA	823.474664583236	0.243489397642518
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AGGTCGGTGACG	823.537648868985	0.136206148324811
AGAGTATGTCAC	823.53915179169	0.225200736673171
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CGCAATGTCATC	823.56086200239	0.183050031285648
CAGGACTGACTA	823.564507318619	0.205852376307884
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AGACCCGTGACT	823.592229185038	0.283017660995753
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TATGTTCTGTCA	823.623164206455	0.221903135489188
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ACTCATCTTTCG	823.675159788729	0.296426939860099
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ATGTCACCATTC	823.691380795217	0.259991025767996
CAATAAGTTGAC	823.693083494186	0.287255984262939
GGTCATCATCTA	823.7015354899	0.178930328744264
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CGGACCGTCATA	823.727151820275	0.248776822536873
CCGTCATGGTGA	823.73032921607	0.217579979842947
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GCATCTCTGACA	823.744816055922	0.295165830011619
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GGGTCATTGTAC	823.774691534226	0.273231905789444
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GTCATGCCAGTA	823.788851554312	0.25745371544228
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GTGACGGAGCAA	823.988823412728	0.238496173137141
ACGAGTCAAATC	823.993569457679	0.202120142111213

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ACTCACTCATTC	824.008092461796	0.188685789669617
AGCACTTGACTC	824.010584185782	0.180646504351549
TTCGTGATTCAA	824.011663864058	0.256149078206851
TATGTAGTGTCA	824.015280594758	0.255810537120233
CAAATCGGTCA	824.027031282405	0.178848745876908
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ACTTGTGACATG	824.028009891715	0.207067927373032
CGAGGAGAGTCA	824.037391854682	0.2441690895778
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GTCACCCGCTTA	824.043035239396	0.330844846972474
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CACCTGGTGACA	824.064178267855	0.292030340549922
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CGAGCAATGACG	824.433978338938	0.297644767078784
AGCCAGCGTGAC	824.434005134933	0.215833548675206
ACCTAGTAATAC	824.438496826559	0.204473886461264
TATCGTAAGTCA	824.452535090773	0.222838821922862
GAGGACAATGAC	824.454846378647	0.223321406735579
GTCATCCCCAGA	824.455911403663	0.210703415209061
CCCAAGGGTGAC	824.460973955959	0.203530151645784
CAAAATTAGTCG	824.47041628149	0.21517711610925
GTGCTGTGACCA	824.48655470176	0.274052865064571
CTATGAGTTGTC	824.491545176506	0.209857940224436
AGTCAGACCGCA	824.500073948205	0.35160784551735
AGAGTAATAAAT	824.501039585567	0.219589785673972
GACTGATTGCTC	824.501777107514	0.140514925084489

AGCCTATTACTC	824.503286026845	0.283359736025575
ACGCTATGTCAC	824.509024386211	0.240352200500783
GTACAATGACCA	824.510875699745	0.208982105662787
GAACCAGATGAC	824.516205488678	0.229290885206804
ACTCATCTTTAT	824.520943106186	0.208562970811468
CGACCAGTCAGC	824.526356420164	0.233680151121913
ATGAGCAACAGC	824.527182275638	0.3000379156383
ACTCATAAACGA	824.537163826136	0.277937698416245
ACAAGGTGACGC	824.538958509092	0.314791307504606
ACACATGGTCAT	824.539653809186	0.185594370846623
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GATTGCTAATCC	824.550071380305	0.292417538653217
CTAAAGTGTGAC	824.550154961543	0.186248817227602
AACCGATGTGAC	824.556041743298	0.21809284906021
CGATGAGTGTAC	824.564734529504	0.217457125856993
CATCGACTATGA	824.575559891366	0.218023486407847
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AGTAATTCTGAC	824.587254448625	0.251776747780444
GCTAAGTCTGAC	824.590357811259	0.280000760978915
CTTAAGTACGC	824.600651691261	0.25703290483965
GTCATAAGACCA	824.604834018672	0.131455997973324
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CGTCACGAAATA	824.63423695323	0.27780454150814
GTAATTAGTGAC	824.635398842524	0.181160080143909
CCCCAGTAGTCA	824.637248620301	0.201055541796457
AGAGATCCGTCA	824.638948050278	0.186799486729935
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AGGTACGCGTCA	824.656391292083	0.20739315368761
ATACTAGTGTC	824.659223897864	0.211575002386021
ACGTCATGGCAC	824.661401004835	0.231335741034518
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GTGGTCATTTTA	824.73099668774	0.214794896273943
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AAGAAGTGGTCA	824.961363920927	0.322452675652486
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CGCTTCCGATGA	825.031564839025	0.234868450952003
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ACTCATACAAAG	825.175544869355	0.234729495677953
CTGAGTGAGCCA	825.175609763373	0.204394436833935
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AATCCCCTGATT	825.333925414444	0.117262401080712
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AACTGATTAGTC	826.279445413473	0.212664532806985
CTCGATGACCGA	826.281518925654	0.251696678695854
ACTCATTGTTAT	826.292022963632	0.286496866112051
CGTCACTAAGAA	826.296912787084	0.240144989647481
GTCACCCGCGGA	826.298105872439	0.227946155383662
GATTAGTGACGC	826.299495109551	0.192056375988754
ATTGTCATGTCG	826.303846313293	0.268967113208098
ACTCGTACTAAT	826.314226168268	0.225349286051322
CGTCACAGTGGA	826.316243599991	0.292439883712064
ATAGATTACTAA	826.317048846069	0.154655914613528
ACTCATACACAA	826.317224965308	0.146579501786234
ACTCATCGATCG	826.320972076323	0.256751169255724
GTCACGACCTAA	826.321875308627	0.202869512855372
CTGACTCCGTGA	826.322463041404	0.124525606764499
CCCTTGTGACGC	826.323368631383	0.293668936730043
GGAATGTATCAC	826.325563362664	0.284173985767553
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GTCCATGAATCA	826.329331842075	0.172869270567362
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ATCGCTCGTGAC	826.335409393628	0.255205713172969
GGGCCGCGTCAC	826.338383476137	0.238880724089174
TCGAGTCCGTCA	826.342196970717	0.175172421114012
AGTTAACGTAC	826.344682910054	0.195207597889726
ACTTGGTCACTC	826.360098589807	0.124784270392089
GAAACGTGACGC	826.369973236812	0.338422773936537
GTGTCAGCCACA	826.374035892315	0.295228523054407
CTGTCACAAGTC	826.395294024634	0.154374049965518
CGTCATCTAGCC	826.400101127585	0.156545366663856
ACAGAGTCAAAT	826.401712278505	0.254907459466417
AAAGTTAGTCTT	826.41619955208	0.141224486331057
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GTCACCGCCAGA	826.419829171682	0.0664614942217891
ACCGTCATTGTG	826.433244818377	0.348316694565797
ACTCATTGAAG	826.439946617653	0.146120076364414
ATGACGGCGTTC	826.440863126291	0.199504185868009
AAGATATGTGAC	826.445307680188	0.191230164757631
GCAAATGACCAC	826.446691878353	0.152858087236675
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ATGACAGCGAGC	826.4754384585	0.169431199213349
TCATCCGTGAGA	826.478945049459	0.318231172847807
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AGGCTGACGTAC	826.495532520101	0.303270881877194
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AGTCACGGGGCG	826.851693071206	0.201614565885836
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CGCTCCGACTCA	826.892036106758	0.225314021034373
GATGACGTCCGA	826.892121472312	0.221286664787532
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ACGTCACTGCAC	826.911562339611	0.303876370691726
CACGGCGTGACG	826.915079069546	0.202550163463311

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ATCCCAAATGAC	826.936550869019	0.245323855237265
ATGTCACCGCGA	826.947563771805	0.335355768040816
TACTCACTATGA	826.958606495498	0.205957108462615
GTCACAGCAGTA	826.960497938969	0.2540538896667
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GTAACATGACAA	826.985972013769	0.233513534319841
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ATGACCGCTATG	827.039011079764	0.190346338306267
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AGAATTGACACA	827.17221609663	0.321251906524979
GTCAGCCGATGA	827.17351933741	0.191709625412065
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TGTCATGGAAAA	827.185650658056	0.271353979756246
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AGTCAGATTAGA	827.858093480933	0.190065869742858
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CAGCAGACTCAC	827.879923861527	0.190743219030759
AGTGACGCCAAC	827.880319427388	0.1728663064952
GGAAATATGTCA	827.899660514126	0.367409715633448
ATGACTTGCTAC	827.905774425852	0.194872559339646
ATGGCTAATTAC	827.913349171752	0.204146158124255
CCAACACGTGAC	827.925385081629	0.259478342323787
ACCAGAATGAGT	827.930319702745	0.15973695588589
TCAGTGGCGTCA	827.931938617715	0.230318892961533
TGACATCGTCAA	827.933802839231	0.249882563523574
ACCAGGTACATC	827.940952403462	0.300344048477275
CTATAATGGTCA	827.941273198439	0.245619142262662
ACGAAGATTCAT	827.94264389151	0.262056255002029
GGAGGAGTAATA	827.95012903626	0.182737113873642
TCACTTGACGCA	827.950680169869	0.147373061022924
GTCACCGCGCGA	827.956573476555	0.307979279528593
AACCAGTGCAC	827.964756795198	0.22138642044211
ATGACATGAGCA	827.966496363689	0.193490217673707
AATGACCATAAG	827.970012488175	0.361773837846942
ATGGCCATGACG	827.971606772594	0.186843144943655
GTCACTACAGAC	827.97331743482	0.225790734401078
CATGAGTCCCCG	827.97338446563	0.257237675977684
GTCACCCTCGAC	827.984464391094	0.14882437478886
ACTGTTGCTCAC	827.995044850658	0.175952839649154
AGCTAATGACAA	827.995450098736	0.299811007366757
GTCTGACATCAC	828.000722973906	0.13123628981709
ACGTCACTAGGG	828.013778428258	0.210242888445399
AGGTTCCGTGAC	828.014610771603	0.275983708132856
ATACGGTGAATC	828.016914124254	0.229134643015685

CCGTTGTTGTCA	828.029377457103	0.246325876013557
CGAACGGGTGAC	828.035874048482	0.159886281341734
AATAGCGGTGAC	828.040861591673	0.16194737225565
GATCGGTGACAA	828.041464036273	0.146296057940617
GGATGAGAGTCA	828.054869143506	0.174074236046881
AAAACCTGCTCAT	828.054871062965	0.257408742792432
AAGTCACTTGCT	828.061225400322	0.303912860596708
ATAGCGATGACC	828.062708324551	0.18078293187782
CTAGACATGTCA	828.063708850312	0.162166953858421
AAAATTGTGACA	828.065226115735	0.185833735367582
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TATGCATGACCA	828.07718460045	0.185644101204177
GAACCGGTGATA	828.079864162764	0.117314418237019
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CGCTTATGAGTA	828.090324066006	0.192287632018399
GTCACCTATGTA	828.093424242279	0.257794131585074
GTCATTGCCTTA	828.096911806874	0.198788513245443
GTCTAATGACAA	828.105149879924	0.210224189591192
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ACTACTATGACC	828.166682825227	0.131115841530682
AAGGAGATGACG	828.167239398903	0.143925380622004
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CGTCATGTTCC	828.174726947969	0.340137632754273
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ATGACCCAGCGC	828.182063526235	0.193355654568725
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AAAAGAGGTGAC	828.233458763394	0.314022053759464
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CCAATCTGTGAC	828.329585837856	0.252778531097341
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CAAACAAAGTCA	828.339962792218	0.241027684100338
ATAGGACGTCAT	828.340151884021	0.226619180682526
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GTCACCGTGGCA	828.353718211755	0.214189091257827
AGTATGACCTAC	828.36059112973	0.169140444112812
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ACTGACACAGAG	828.40884321863	0.181950942100138
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GAGTGACCCTAC	828.552940167422	0.268787877482738
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ACTAATTCGGAT	828.967580192386	0.315566053514807
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GAGTCAAAAGAA	828.972005900844	0.113197484008926
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CCGTTATGATTC	829.531296932307	0.179703082936732
CATGGCTGACTA	829.531617852157	0.235756904579713
ATCACGGTCATA	829.532727803413	0.188430583715819
TCCTGATAGTCA	829.536331163011	0.205022695632179
GTGACAGAGAAC	829.552976795691	0.206216498977616
CATAGATGAGTA	829.559688169287	0.190716410636678
CAGACTAATACA	829.562113589938	0.228293896066454
TGTCAAGTCACA	829.562647091398	0.198534529596908
AGTCAGAACGTA	829.564032196821	0.193241202974446
GATTGATGACCC	829.567867522401	0.196661912327177
ACTACAGCGTCA	829.582877844745	0.262235670074236
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AGGTGACAGTAT	829.603868684487	0.178274950081035
AGTGAAATGAC	829.605426571548	0.154356263781919
TATGGCATGACA	829.606688756452	0.249374863361327
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CAGCAATGAGTA	829.611216867897	0.277202847687863
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AGACTAATAGAG	829.621725055875	0.210166805226484
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AGAAGATGACCA	829.698455649429	0.186960686503629
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ATGACATTGCTC	829.95858395642	0.266062338268922
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ATGAGTACGGTG	831.144565920953	0.177216513849546
GTCACAACCTAA	831.145593771979	0.386689186808124
CCACGACAGTCA	831.15864558325	0.203494221747471
ACTGAGTCGAAC	831.162167434854	0.195816316705313
GGCTTACTCAAC	831.164521830477	0.331695220032193
GCCTCTAATGAC	831.16478001925	0.278300512833898
GACTAATATATA	831.177711583292	0.199345669291438
ATGACGACTCCG	831.182185517279	0.320930344219426
ATTAACTCATAG	831.182822551738	0.183167853054639
CGCGCTGTCATC	831.188743584162	0.171369775929828
CGGAAATGACCC	831.191607958698	0.262928560595655
AATGAGTAGTGA	831.194643242448	0.25536207854779
TACATTTTGTC	831.200363243993	0.186365175742806
CTGTCATGATTC	831.205851465007	0.261296550043323
TGACAGCTTTAA	831.209042737636	0.197738570745414
AAATTGGTGACG	831.216395485642	0.172606905173656
GTCATTACCAAC	831.224586164746	0.234320967605929
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CCTATACATGAC	831.224986843853	0.223755523560291
CGAGCTTCTGAC	831.226030056299	0.224832344994405
GGACTGCATGAC	831.234844873498	0.240070090598225
AGGAGTAATAAT	831.251171733042	0.185632552607646
CAGCTAGATGAC	831.263841190004	0.269402433499539
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TGACACTTCAAA	831.279099599093	0.173408335105864
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ATGACCGAGCCG	831.299001094506	0.331989765762707
ATGATGCAACCA	831.299361246619	0.362756160908087
TCAAAGGTGACA	831.321313163319	0.213767988638184
ACGTCACGGTCA	831.322486882154	0.299104411038744
TCACAGTTGTCA	831.323145109143	0.143473385432334
GAATAATTAGTC	831.329010360962	0.300312881624265
AGTCAATGAGCC	831.335180008712	0.194926756976387
CTGAGTCGAAAG	831.356458442326	0.171243478251744
ACTATATGGTCA	831.365902149981	0.20260130752982
AGATATCATGAC	831.367863880674	0.202275288309579
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GTCACCCGACAC	832.846483578135	0.239600990712511
CTGTCATTTGAC	832.848800091311	0.195403745457731
CAATGCGGTGAC	832.861324002438	0.270009489350272
TATAGGTACAAA	832.868227375223	0.168822683072396
ATCGTCACGCAA	832.873448151664	0.158331681940471
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GCACCTGTCACA	832.87510965292	0.211401823523756
GTCACATGTCAA	832.890089227827	0.123478013401994
GATGAGCCTGAC	832.898709165748	0.254273440069173
GACTCTTATCGA	832.902879100882	0.319509647415879
GTCACGGTCAGA	832.90510781961	0.223215389466306
ACTCATCCAAGT	832.908174844775	0.205297148985459
TAGTCAGTAGAA	832.911447582583	0.196983931349094
GTCACGTAATAA	832.91343050716	0.251665503119968
CTGTCATGTTGA	832.914142014707	0.244946051090034
TCAGTAATCCGA	832.917417677284	0.214281684491403
GATGACCGAACA	832.921262601536	0.199615283146892
GACAAATCAGTC	832.923804071169	0.1917617322098
GCGTCATGCTAC	832.92764155048	0.227420701214521
GTCATGAACACA	832.928388968284	0.2213473554783
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ATGACGTTCCGCC	832.940955020787	0.169789206959828
GCTGCTAAGTCA	832.943565560801	0.272349326677764
ACTATGTGACCC	832.946653877317	0.269445699379174
CCAGGTGACGAC	832.97086829345	0.303744383901076
CCTATTCGTGAC	832.972151676488	0.168768592403156
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CACGATGTCACA	832.993615857929	0.132356552038684
GTCACGTTCTCA	833.000064405621	0.26006038441379
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GTCATGTTAGGA	833.015411908313	0.209438956134725
CGTCACATTTAC	833.017470070736	0.261874927562698
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GTTACACATCAA	834.560663338052	0.24798717888358
ACTGCAACGTCA	834.562991357369	0.251179594607695
ACTCATTCTAAT	834.568286295511	0.139700309250791
GATGATGTAAGA	834.570828362046	0.226631288481414
AAATCTCTGACT	834.57656505322	0.221467543354584
GGTCCTGATTCA	834.591133684513	0.311975688893402
TAATCCATGACA	834.593155531442	0.165423188922767
TAAGAGTAACCA	834.601549673535	0.204294216396884
AGTGTCACGACG	834.609727053588	0.156074449480584
GGCGAGATGACA	834.610115520033	0.203001950176909
ATCTAATGAGTA	834.610639633412	0.168412156045217
AGTCTCTGTAC	834.612262780254	0.215167949631885
GCTGACTATGAA	834.625342788887	0.249878835445147
CCTTATTACTGA	834.626068216143	0.114850217458324
ATAGTCAGCTTC	834.63097648846	0.2724599714591
GTCACCTAGATA	834.643624155057	0.315217411011038
AGTAACTGTGAC	834.652151821736	0.125222227049936
CAGTCAATGACG	834.654410698067	0.27410417337158
GTGACATAGTTA	834.673202028798	0.123296914174187
AGCTGTGACGAC	834.673354708659	0.281995499498052
CCATAGTGTGAC	834.685234461165	0.185963710128569
ATTATGACCTCA	834.686085170046	0.20863243097754
GTGTCATGAACA	834.687339399001	0.286514821205599
CTCTTAGCGTCA	834.689782330656	0.222172091306228
CGTCATGTGTAG	834.70097922713	0.184746345309029
CGTCACACCTAC	834.705317641886	0.113427994208411
CGTGATGTAACC	834.705800638078	0.218440481994892
TGAGCCATGGAA	834.706584886853	0.258374170986401
GGTGCATAATCA	834.712776155551	0.195819765891057
AGGAAATGTGAC	834.71421451909	0.175371992146477
GCAAGCGAGTCA	834.71489169503	0.332635052684676
CGACTAGTGACA	834.722426122225	0.291763561221092
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AATGCTGACTAT	834.732371096573	0.205834384837827
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AAGTCACGCTTG	834.735487423917	0.192458715536213
ATACGTGACAAC	834.739718784156	0.17525514337501
ATACATGACGCC	834.761978182132	0.312284423090419
AAGTCACTAGGT	834.764211070791	0.24529375545862
GGATGCCTCATA	834.765758782816	0.206140552604415
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ACACAATTACTC	834.77218400484	0.226611839632859
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CAGTGAATGACC	834.784868881579	0.24030141167965
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GTCATGTCTTTA	835.017134367527	0.220445014487012
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ACTCATACGCAG	835.084213296156	0.171066166447387
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ACCATGACGTTG	835.258711202955	0.188102239639208
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CAGACTCACTGG	835.691482423167	0.234400814123164
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ATTAGTGAGCCA	836.190278929038	0.324263358890625
CAGAGGGGTGAC	836.191384116673	0.240740969090399
AGTATTGTCACC	836.19591067804	0.182492758785968
ATCCGTCAGCGG	836.19993858576	0.206672928164996
AGACTAATCCAA	836.200282435866	0.129122404155097

ATGACGAGAAGG	836.201547598058	0.185517621267786
GGAAAATGACCA	836.205497270772	0.164733352091834
TAGTCAGCTGCA	836.224233444972	0.323907702858468
ACAGACTAATAC	836.22639231201	0.254451819928027
CGACTCAGATAA	836.22829211876	0.184841882745312
ATGTCACCCACG	836.230499511892	0.208235181941223
TGTAGTGACAAA	836.230551015622	0.186619347962493
GATGAGTAGTGA	836.23355287097	0.173487549032368
CTAGTGTGACCC	836.233821671273	0.217436336104411
ACGTCGTCACCG	836.240901031496	0.164927126507649
AGTCCGATGACC	836.243377935887	0.163913703526083
AGTCAGTAGAAA	836.24765115461	0.223815499817498
GCGTTAGATGAC	836.253145334575	0.177053214961542
TGACGATTTGCA	836.258185300339	0.305050590713573
CAGTCAGATAGC	836.258939977872	0.263457850439134
CTTGCGGTGTCA	836.263680342547	0.255990157704302
CACTTGCTCACA	836.277977545066	0.217180920625276
GGGAGTGACGAA	836.282718389647	0.12750726262298
TCCGGCACGTCA	836.286404780544	0.162595775475795
AGGTTTGACTCG	836.287259784245	0.253644925128038
ATGACAGGGCTC	836.287860568312	0.226145561861973
CCTAGGTCATGA	836.309735297692	0.216338766154825
CGATGTCTCACC	836.311500737528	0.173922842505712
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ACATACGCGTCA	836.319764076225	0.298446952550799
AGGTGATTAGTC	836.332983885903	0.267438578744956
ACTCTTGACTCT	836.353818340538	0.114870833018815
TTCTGGTGACAA	836.384653846845	0.22544113356276
AAGCCGGTGACG	836.384731747086	0.214238288663326
CATCAAATGAC	836.387932683952	0.312168499789745
ATGATGTGGCGG	836.389225472799	0.127607815024072
GCGGCACATGAC	836.393205813972	0.213682711486345
GCGCCGGAGTCA	836.394219358056	0.333806045140489
CGTCAATGAGCC	836.395179891495	0.267725997912617
CTGTTAAGTGAC	836.396345411998	0.164811643190811
GTCACGTTGGAC	836.405424401564	0.202375638345723
AGACACGCGTCA	836.413212971078	0.252759312616275
GACTGACAGTCA	836.414958284498	0.201538860255621
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TGACCGTGACAA	836.42229762362	0.226176180937319
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ACCGGCCAGTCA	836.432242812564	0.30156047852928
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GCGTCACTGGAC	836.452964221242	0.180248016740968
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AGGAACGTCACC	836.503887133596	0.18439753818471

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CTGATTGATGAC	836.564609959369	0.123388697338314
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AGGTATTAGTCC	836.784723481779	0.233094669823325
GAGAGCGGTGAC	836.788546901836	0.253921478287868
ACTCATTTTGAC	836.801760858591	0.154629208729039

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CTAGCGGTGTCA	836.821473406354	0.193240935172581
GACTCTCGTGAC	836.823555038441	0.203811843441172
GAAGTCGGTGAC	836.83480589329	0.123718813816837
CACCATGTGACG	836.838879872208	0.258303712779936
TGTCATTAGACA	836.838990614866	0.247476325205505
ATGACGTTGGTG	836.845094304801	0.142167948220201
CATGGCTCTGAC	836.848887554927	0.127934170477404
GAGTCGTACCGC	836.851001385461	0.151370100377884
CAGGGCCAGTCA	836.872677313025	0.18694627094014
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CAGTGATTGTCA	836.88298749643	0.169899503056855
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ACGTCATGTTCT	836.929050195285	0.153329245499741
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GACACCCAATGA	837.030500915269	0.213283022187642
GCCTTTGAGTAA	837.032221974836	0.196975278115723
ATTAGTCGCAGC	837.059090303775	0.177329693412725
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GTCACGTACCAC	837.064829643797	0.217853405863236
AGTCAGAGATGG	837.068061613594	0.172016768126168
GAGAACGCGTCA	837.085969483614	0.166565213116788
AGCCGGTGTGAC	837.088045707969	0.17369934740086
AGGGGATATGAC	837.090343298667	0.170938901359395
TCATACATGGGA	837.098361440374	0.220535095015329
ATTACTGACACG	837.09954337201	0.20744198020263
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ACGTGATTCAAA	837.127134009067	0.237163157563488
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CTCATGCAATGA	837.141818314497	0.277264064353553
CTGAATGGTGAC	837.148491525624	0.167091324764629
GTATTAGTATTA	837.159306824426	0.282530354605423
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GTGACACTGATA	837.188833329809	0.213571827400002
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CTATAATGAGTA	837.193351917278	0.188349485129621
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AGCCAATGACCA	837.212854659937	0.254216211684709
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GACATAGTCAGC	837.286062345709	0.23631771059462
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ATCCTACTCATC	837.374750598739	0.149042260736974
ATGACGACTGCC	837.376219632469	0.180394216946829
GCGTTAAGTGAC	837.386902883546	0.278642918556623
AAGCAATGACAG	837.391081128917	0.120575776990206
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GTCACATGCGAA	837.881686444589	0.263804940090327
GGCAATTCTGAC	837.881993750743	0.207072345094462
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AATCAGTCGTCA	837.885643397458	0.134106248204047
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TAATCATCGTCA	837.891443630799	0.208516759707742
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CAACGTAATGAC	837.899411159021	0.245231836062979
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GACGTCACCTTAC	837.918466579263	0.180040600598502
CGCTCCTAGTCA	837.929159317618	0.309081837449211
AGGGCTGTGTCA	837.941346917374	0.162667109832836
GCTTAATCGTCA	837.947622241504	0.31117963417442
GTTCTTTACTCA	837.951758673392	0.135132478596001
GCATACATGTCA	837.958665640867	0.24784167633355
AAGACGCATACT	837.963467009199	0.266248610257335
TACGTATAATGA	837.965183620836	0.200042833218982
CTCATGACGTTA	837.968800093828	0.161504813713294
AAGAGGGTGACG	837.970365215776	0.137766379012091
ACGCCTACGTCA	837.974530824675	0.306830353565382
CGGGGCAATGAC	837.975121583511	0.281469604832457
GTAATAACTAA	837.99465399248	0.263612553984024
CTGACTGGATGA	837.995056538774	0.170013301414821
GGACGACATGAC	837.9976035971	0.196958949538976
GACCTTGACTGA	838.010190651405	0.247034217019639
CTTTGATGTGAC	838.01328457327	0.156102678248425
GACTAATCCCTC	838.015301667446	0.232014182705606
CCTAAATGACCA	838.015650120573	0.180317157754364
GCATCGTACCC	838.016250974003	0.219326558463146
GGTTGACTACTA	838.016538395966	0.256912565253581
AGCGTGACACGC	838.018807122612	0.20067693347022
ATCATGCAATGA	838.021951635755	0.328987448254354

GACGTTTACTA	838.023535566684	0.217788006048987
GTTGCGTAATGA	838.024274405898	0.172900859415607
CGTTCACGTCAC	838.035325242707	0.187798965119729
GTCACCACGATA	838.041987367761	0.189596219097293
ACCAAGATGAGT	838.044042491896	0.199295119867466
CGTCACATGTTA	838.049920721894	0.296728251790486
CCGGCTCTGTCA	838.053274039699	0.210595661779025
GGCTTGCTCACC	838.067847259041	0.171742435242915
CCCTTGACTCA	838.074965631789	0.242774325391283
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CACATTACGCAA	838.082269398575	0.187806964949774
GTCACTGACCAC	838.086209200638	0.189135692980231
AGTATTACGAAT	838.086290308619	0.163552408363536
AGGATTTGCTCA	838.104462353365	0.129807496582042
ATGTCATTTGGA	838.108828071366	0.230312918467694
ATACTCCATGAC	838.109471328139	0.174138290401234
ATAAGATGTGAC	838.113967825539	0.258477598957497
AGACCCGTCACA	838.124454922524	0.190669580822768
CAATGAGTAGAC	838.125557885672	0.168578333534738
GCGTGTCGTGAC	838.131111336711	0.17983295140507
AGTCTTGACTGA	838.134093554908	0.246271668842461
AGGAGTCTGACT	838.141655102215	0.113790136403077
GACTCACGAGAA	838.142865130093	0.262499269796781
GACTAAACCTGA	838.145295937415	0.234499090557729
CATCGTCATGTA	838.150633416198	0.165856812260789
AAGATGAGTAGG	838.150652966319	0.163241898122158
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ATGTGGCTCACG	838.157248857622	0.255170328946485
CTGACTATGTTA	838.165959840151	0.315373954489563
GATGGACAGTCA	838.168051897337	0.199795783460687
CCTCAGTGTAC	838.168131250445	0.255239557407808
CAGATGGTGACA	838.168661740376	0.194819077224102
GACAAATCTGAC	838.173161103072	0.222772865876708
AAATCTGACTGG	838.176511439324	0.110506612305265
CGACCTCGTCAC	838.189053988805	0.164759660036248
ATAAGTGGTGAC	838.195830509909	0.162492349274506
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GTGACTGCCTAA	838.216174590287	0.228032237542431
GTCATGCGTCTA	838.216658764719	0.182356099653971
GCGCGAGATGAC	838.224288740213	0.208317578893832
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TCAAGGTGACGA	838.229298158788	0.197937649793108
GCCAAAAGTGAC	838.26269460632	0.291109135534553
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CTGCATTGGTCA	838.267131182354	0.170708729531609
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ACATAAGCGTCA	838.286982688334	0.252769515544161
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ATGTCACAAATCA	838.355192217538	0.241186188680209
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GTGCGGTATCA	838.408171731714	0.29417152388959
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GAGTGTGAGTAC	838.426381048511	0.172392286498545
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ATGACAACCTAC	838.445479038876	0.172059143538687
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AGACCACAGTCA	838.465871978277	0.20842982550431
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GAAGATTCAATC	838.489431013809	0.182281545883279
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GATCTGCAGTCA	838.651414268634	0.218849823277254
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ACTACTCAGTGA	838.688706132349	0.22215196276809
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CGTGTCATTGC	839.174158908017	0.201706915721648
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CAGGTGAGCCAC	839.181818822478	0.268090205604025
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GTCATCCCAGAC	839.61472624015	0.193950224818777
ACGTGCATGACG	839.615665594421	0.187166702293625
CGTCACGGCAGC	839.633143400193	0.258485769611771
GCAAAATTTGCA	839.6412983925	0.236186627794532
CTGGCTGAGTAA	839.642922233646	0.260427808477259
CGCTATGTGACG	839.648188409199	0.176885088667891
TCTTCGGTGTC	839.653265267833	0.197107169595939
GTCACCAAGAGA	839.659693470443	0.195519953403939
AGCTTTAATGAC	839.661104086696	0.16813086261798
ATTTGGCGTCAC	839.670101342413	0.187812959454735
CGATGGTGACGC	839.670111185572	0.217050398732977
AAAAGTACGCTG	839.689322642367	0.264423926078069
GGTCGGAGTCAA	839.689397915107	0.195983277519809
GATGACGGGGAA	839.697609810824	0.163501013311543
ACGTCATGGGTC	839.701346459566	0.237079793606037
GACGCAATGACC	839.710802492129	0.315622827766839
CCTCCGTAGTCA	839.711045582734	0.208836893689042
ATGGCATGACCC	839.715997771287	0.183388013234015
GTTGCGGTCATA	839.716530684169	0.183729332050125
GACTGACTGGAC	839.723621321198	0.2637017683059
GGTCACGTTTCA	839.731220594507	0.207736626223619

GATGACTTGCGC	839.732028102527	0.194827365736872
AGTCAGTAAGTC	839.732380690061	0.196590565109284
ACGCCTGATGAC	839.73265021902	0.238074119345374
GTCACTACCACA	839.739000008351	0.245426144311897
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GAAGAATCATAC	839.76542890329	0.219299855499031
GTCACCTCACGA	839.780695808847	0.225714713680282
GACTCAGCCAGC	839.784419156144	0.282546012247437
ACTCATATCTTA	839.791261408495	0.207438253678402
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GTCACCGCTCCA	839.799506065955	0.218107069628964
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GACATTATGTCA	839.92600819459	0.181449764608082
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AAATTAATCACC	840.01467795206	0.215264461205329

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AGTAACGTCACT	840.023185293538	0.192979047900702
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CCATTGAGTGAC	840.036030444581	0.172686966342833
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CGTCACACGGGC	840.051746567782	0.211949904270981
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ACTTTCCAGTCA	840.059447442025	0.208647230367862
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TCGTATGATACA	840.073326486067	0.160905391341102
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GTCACCCAGTA	840.104915507389	0.17997464617361
GTCACGTTTTCA	840.114118496175	0.313694847416548
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CACTCGTGACGC	840.146732740704	0.249295956421715
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AGTCACGGGGCA	840.179688970056	0.235965021241685
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CAGTCAGTGAGC	840.345435517899	0.20332923739138
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GCCCTTTATGAC	841.209512337669	0.265674114928798
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ATGTCACATCAC	841.223541314481	0.165672933528489
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CGAGTCAAGCCA	841.228042655687	0.223934251156842
CATCGAAATGAC	841.249245702328	0.135224404187489
AGGGCTGCGTCA	841.252050429953	0.166258298112672
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GTCACGAGTTTA	841.257025605805	0.283977057640394
AAGAAGTTGTCA	841.257798650192	0.166118552084802
TAGTCTGAATCA	841.258350826097	0.200421822419264
TAGTGTGAGCCA	841.260254096573	0.170501040124739
ATTGAGTCTAAC	841.263272553408	0.16401012716458
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ATTACTCGTGAC	841.283025981957	0.160666621822114
ACCGCATGACG	841.294229830983	0.252352294365487
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GCCATACTGTCA	841.302504410947	0.20378268355805

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GTCACACGGCAC	841.306970180445	0.19353756377609
GGCCAGTCTGAC	841.310499704327	0.263876275732014
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ACTTACTCGTCA	841.322805958712	0.110356038630367
CACTGAGTGACG	841.334743013906	0.115737877796003
ATTCGTC AATTA	841.336497549455	0.219778322107098
ACTTGTCACCCA	841.346633252659	0.157852072964405
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ACCGACTCGTCA	841.350676971106	0.177979487210238
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CAGTCAGGCCTA	841.37373819871	0.286164154010774
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GGCCTTGTCA	844.473916298074	0.229869662021997
TATATTGTCA	844.4832624723	0.132170902027293
CAAGATAAGTCA	844.490278617015	0.199397312248115
AGAAGATTCATC	844.496671784188	0.132969555204852
ATGACAGGGAAC	844.497635444591	0.188398326910814
GATCCGACTGAC	844.502965441204	0.164810564011363
GACCGAATGACC	844.514665152508	0.26753723114104
CGTCACATTAGC	844.529657878269	0.191172835961936
AGCCTCTAGTCA	844.535345409575	0.203834786145781
GCACTATGTAC	844.538346987575	0.236057051772366
ATTATTCATCCG	844.546202456263	0.17243784272118
CTAGGACTAATC	844.549710342344	0.155990520294464
TATGCAGTGACA	844.552888889317	0.193283303280237
TGAACTGATTCA	844.562055172896	0.228540201633513
CTATCTTCGTCA	844.580115609277	0.145403001151954
CTATCTAAGTCA	844.581649939588	0.163680800858305
ACTCATTAGGGG	844.58475101752	0.157275736796481
GGGATGCATGAC	844.589761023533	0.195324936353221
CGAGTCAGGACA	844.596519860078	0.176042427333075
CGACTAATCGAG	844.596647207082	0.292363935765447
CTACTTGTCA	844.600331243867	0.166741638198159
TCAATGACCAGA	844.610259913623	0.282469382383051
AGCTGTCACCAC	844.613732284408	0.229969534811324
CATGAGGTGACG	844.614893302892	0.210329947448839
ATGACGACCAAT	844.615439422616	0.23948212311192

GTCACCTAGACA	844.62364276331	0.235468728701767
TAATGAATAATA	844.628492263853	0.222956169482226
AAGGTGACAAGT	844.631372149439	0.178640740415614
AAGTATGGTCAT	844.637641814367	0.0767398396857581
GGAGTTTGTAC	844.641002099167	0.20344493161122
ATCCTTGACTGA	844.651773139773	0.208081810483069
ACAATGTGACAA	844.657647064809	0.130408846594079
ACCGTGCGTCAA	844.657699556741	0.224861881143223
CTGACTACTTCA	844.659277719661	0.17818994899142
GTCAGTGACGGA	844.67617596028	0.242256298022098
CCCATAGTGACG	844.679235344254	0.294106992956382
CGCACTGATTCA	844.67949969344	0.188767952637062
CGAATGGACTCA	844.685940770874	0.179566053932359
AGTCAGTAACTC	844.702293543297	0.188657263059113
TAATTGAGTCGA	844.70305550254	0.18259907127689
AGACGTGACGCG	844.704194130503	0.19602984301003
AGTAATCGTCAG	844.707747831339	0.17205898669427
CTAAATATGACC	844.712490144123	0.160151075071603
CGTGATACATAC	844.715753797996	0.188635123561329
TGACCCACATCA	844.719474118892	0.190136740834649
AGAACACTCATC	844.721294422029	0.19276030827659
CTATGACCGCAA	844.723315648663	0.202684884936551
AGTACTTGTAC	844.723856164831	0.24035621409806
ACCTGTCACCAC	844.729488972141	0.129100220381884
CACACTCGTGAC	844.732165497744	0.160387306002636
CGTGGTACATA	844.733028933029	0.20316831518082
TACGCTTGGTCA	844.747480776778	0.170638890882438
CGTGACCCAACA	844.749586991913	0.250935921035863
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ATTAGGTACCC	844.752699704842	0.280631989380512
ATGTTGCTCACC	844.77685269902	0.197823576173639
TGAGTAGTCCAA	844.778550154202	0.296900134352624
ACGTGACGCTGA	844.779348264572	0.288067521643154
AGCAGTCAGTAA	844.782441631492	0.168022342009314
ATGACATTTGCA	844.788841201691	0.242635476503589
ATGGATGAGCCA	844.795700177275	0.175456051676663
ATGTTGTCGTCA	844.795930359326	0.170597129297556
GATTCATAATGA	844.809278218649	0.193379734686273
GATGAGTTGGAC	844.814005253651	0.23166515513803
CTTATTGTCACA	844.819040119305	0.194900329146053
CGAGGCATGACA	844.826584087797	0.182730255704597
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AGTCAGTCGATA	844.847069078762	0.339373811718818
TCAGTGTGGTCA	844.860149066117	0.231462590419533
CATGCAGTGTC	844.867848145659	0.318356160082069
AGGTTAGTCTTA	844.875490794531	0.167003218158464
CCTCCGCGTCAC	844.876654204751	0.179573094737375
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CGCGTCACTTAG	844.896095823604	0.171056199018168
CATTTAGGTGAC	844.904260293749	0.235972493557123
TGTGCATCATAA	844.907232732014	0.214138902762625
ATAAAGAGTGAC	844.910989469371	0.259832437487748
CTCTAATTAGTC	844.911347961999	0.178437503705495

GCTCACCGTGAC	844.930765960479	0.237261634954183
ACTTTCACGTCA	844.93322279765	0.247183433738791
ATCCCATAGTCA	844.939425034111	0.26108602713541
GTGTGATACAAC	844.940210096316	0.217944277950069
CTGCCGTCATAA	844.94029658721	0.218663642919814
TGACGATTCTAA	844.943877105314	0.276558094502247
AGAGGGTGACGA	844.954325680864	0.168195886944831
CCATGACTTGGC	844.956045049437	0.176971575381335
ACTCATCTAGTG	844.968967118946	0.200216125757294
GTCACAAGCCCA	844.977444525696	0.214940755488879
GCGGACTACTAA	844.984273788384	0.247793012858223
CACTCAACGTCA	844.98850379782	0.216248445169258
GTCACACAAACA	845.004366726624	0.228114236686696
CTGTCATGATGC	845.006398518331	0.213674685111878
CAGAGGTGACGA	845.010415288075	0.212345230042217
GCGTCATGGATA	845.012331007278	0.117007743411085
CTGTGACAGCAA	845.023694852007	0.16491054003222
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GCTCTTGGTCAC	845.070689705885	0.281721000515623
CGTCACAGGGTC	845.073976414015	0.240533696188763
GACACGTAGGTC	845.079407411846	0.215654893938038
ATGACAAGATGC	845.084167623148	0.22144627810909
ATGTCTGTGACA	845.104732861176	0.199784853586118
AGATGTCATTGC	845.106840671654	0.19143955845421
AGACTCAGCGCG	845.121261346675	0.220605917311738
ATTACTAAACGA	845.121931532368	0.191038483146357
GACGGTCATGAC	845.12398013242	0.155327280650271
CACTTGACATGAC	845.124580686834	0.18353951323516
ATGATGTAACGG	845.128060064874	0.190991860164968
TACTTGTGACGA	845.128060682454	0.240796379204114
AATACGACGTCA	845.128190454624	0.182945620973186
ACAATTAGCAAT	845.131844692605	0.272138234389441
ACACATCATCGA	845.135439243576	0.139197587730344
AGATCGACTCAG	845.140645537928	0.218451444618813
CACCTGGTCATA	845.160564844311	0.205872431932452
GTCATCTGCAAC	845.162015591399	0.203558912909662
CGTCATCTCGCC	845.170365932067	0.157519836106839
CCTAATGTGACG	845.182647736486	0.287358438176642
ACTGAGTCGCAC	845.186690157362	0.24273095104941
GTGTCACCTGCA	845.189002166438	0.246783217275809
ACTCATTCTTAC	845.190088375025	0.217171956188008
ACAGAGCGTCAT	845.193101077856	0.130105707216633
GATCGGACTCAC	845.214184829528	0.171707041044152
ATGAGTAGTCGG	845.214387936181	0.154331145216941
TGAATCAGGCAA	845.222611454195	0.193049938523279
ATTTCTTGACTC	845.223488749602	0.267578702436873
GGTTGGACTCAC	845.226184104915	0.193773979313336
AAATTGTCAGTC	845.228894674673	0.247552885483829
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AGCTTTTGACTC	845.240952827118	0.185925350169449

AAGTACATGACA	845.24325482939	0.205951621086211
CGAGTGC GTGAC	845.258988920326	0.196500538843647
CATCCGTGT CAC	845.268940890059	0.166445450504127
GGTGACTTTTCA	845.269020180998	0.156099488177342
CACGTGACACGC	845.275385486845	0.169922307787449
ATCATGTGACCA	845.281207755378	0.167023713697625
CTCATGACAATA	845.28974852316	0.274147848071818
AGGAGTGACCAA	845.29102659799	0.202968729710031
GTTGACTCAAC	845.291971032733	0.177537162984871
ATTGTTTTGTCA	845.292422168503	0.128837539269054
ATGAGCAACTGA	845.293512925298	0.164409038208293
AATTAGTGACCC	845.297435982017	0.259435395565464
AATTT CAGTGAC	845.299824016815	0.230319183451495
AATCATGGTCAT	845.30050432494	0.196556956763012
GGTTGCTCACAC	845.30470896071	0.209213976127471
AAGACACATCGT	845.308210787034	0.185989698782384
AGTCAGAGAACC	845.314097565215	0.217685484028448
CTGACTCGGTTA	845.32606936166	0.150423000732384
GTGAGTAGTCAA	845.326394080772	0.113418076219897
ACCCAGCATGAC	845.327124445276	0.164227953135558
GTGACCATATGA	845.331255869857	0.219950813496833
ACTGCGAGTGAC	845.337870844482	0.222778784406196
GAAGATGACCGA	845.337989488914	0.258458143311176
AATGGGTCAACC	845.34696468686	0.182257078401272
AAGGTTGACACA	845.347499337298	0.200900336186709
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ACCACACATGAC	845.354300036634	0.177410268008878
GAGCCCCAGTCA	845.360794195782	0.212018506894166
ACTCACTTCTGA	845.368091251956	0.234270197612779
AACGTCGCTACT	845.373446811828	0.10522112174772
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ACAGGCAATGAC	845.391709351084	0.224199040981136
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TGAGATTGCTCA	845.399780994664	0.324528961637668
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TACTTCCAGTCA	845.414238896814	0.146608675340806
ACAACCAAGTCA	845.430145801085	0.204716504231856
GACAATCATGAC	845.43495927212	0.280670259101687
ACGTCACAAACG	845.450700420652	0.189220935502763
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ACTCAATGACGG	845.467575876859	0.223172812726488
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AAAGTCTGACAA	845.533089234323	0.160595685233274
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CTGACTGTGTTT	845.569872469212	0.168273017484536
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GTCACAGGCTCA	845.593353510169	0.108875376746477
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AGTCTATGATGA	845.603449017734	0.357630690252685
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CATTCGTGACGA	845.60913227198	0.162970949433968
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AGTAGGTGACGA	845.639792153182	0.168807659939055
GTCACGATGTTA	845.653990740747	0.228797417286452
CTCAAGAGTGAC	845.658056817642	0.163512857365815
CGACGCGAGTCA	845.661494889156	0.303687446155417
ATGACGAGAAAT	845.662549968654	0.202954075034587
CACCTTTACTCA	845.667284875245	0.174015634754118
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GTTTATTACTGA	845.690341817981	0.126027093801338
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ACTCATCTCGGA	846.035025146957	0.0803297432263896
TAACGCTCACTCA	846.035694998409	0.189669781160475
GATGCATCACTA	846.041707928537	0.190357920368428
TCGAGGGTGACA	846.046999024908	0.220265454082521
GCGCAGTGTAC	846.050942243326	0.225207395406382
ACTCATATTGCA	846.05463244037	0.235463280237171
CGACCTATGTCA	846.061637765472	0.241351450715449
CAACATAATGAC	846.062413987419	0.238110375775277
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AGAGGTAATGAC	846.090870778555	0.164122157696025
AGTGACGTGCGA	846.09110286604	0.242058013369997
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CGTAACCTGTGA	846.108284102207	0.196805278193859
AGGCTTACTCAG	846.117300541405	0.177368802874333
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ATGACACTCCGC	846.153207718612	0.126723226208587
ACTCATTCTCAT	846.154942659848	0.152896916282775
TACGCTACGTCA	846.157691761	0.236346817510107
ATACGTAATTAC	846.16507145508	0.189005665111683
ATAATCCTATGA	846.174566388814	0.212745935116759
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GATCGTGACAAA	846.207321335354	0.121581920506614
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TCATCCGAGGAA	846.218886870209	0.236795032811684
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GTCATGATGTTA	846.245235003183	0.341171528069448
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AGTGACGCCACT	847.413055858683	0.143680922277886
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TACATTGTCACA	847.894406601555	0.190599424008304
GTCACCATACCA	847.90106071113	0.16815215192408
GCGTCCTGTGAC	847.904385290653	0.210910080647268
CACTAGAGTGAC	847.907123564721	0.317935008036409
CGACCTGTCACC	847.912908600091	0.189978790387556
ACGCACGCGTCA	847.913194662599	0.173759705905292
ACGAGTCAAATA	847.913272730869	0.125781315583511
CGAAGAGAGTCA	847.913290624202	0.208908170454762
TAGATGTGACCA	847.9149597745	0.156655899665874
GTGTGAATAATA	847.926088411819	0.169713732589618
ACTGTCACCAAT	847.928106650764	0.184854638700402
ACACGTGTCAGT	847.93068087933	0.182271341202061
CTCTGACACGTA	847.931488030247	0.152590784634171
GTGACCCTATGA	847.945325384404	0.193858064995767
ATGTCATGCTAA	847.948668984205	0.251873077394799
ACCAGGCGTGAC	847.951036962327	0.154288288252939
TGAGTTGTCCAA	847.953387346674	0.182318528573846
AAGAATCTGACT	847.962732008906	0.155127616669283
ATGACAACGGAC	847.976140827642	0.251560858310196
GGTGACCGACCA	847.984035459468	0.219696839995512
ACCTTATGACCC	847.98587518831	0.154434463506742
CCTTAAACGTCA	847.987602577673	0.200646116603441
GTCCAGCTCATA	847.988561595215	0.171647242273013
CCTCAACGTGAC	847.989810103865	0.250247882340574
AACTTTTGTGAC	847.995615175443	0.303732059640463
GATTCACCGTCA	848.005849766298	0.245421928897802
ACAGCTGTCATC	848.006703099452	0.233275285129715
GTGACAGTAATA	848.028958758788	0.170643566796328
GAGTCAGTATGC	848.030892675474	0.271727378653967
GCTCCACAGTCA	848.035523785746	0.313388054245993
AGTTAGTCTTAT	848.037463964611	0.229585414455256
TACGGCGTCACA	848.043993224542	0.174630552916165
ATAGCTAATGAC	848.061971217942	0.136417898138697

GTTTGGGTGACA	848.068031450725	0.168089977992636
AGTCAGTCCCTG	848.074747318215	0.236035875346452
AGAGCTAATGAC	848.079464233818	0.178136536095602
ACTCATACTCC	848.081186964096	0.150651832628681
CCGTTTGGAGTAA	848.081640872202	0.27032482350362
AGTGTCAGACTA	848.084577829372	0.261624617643843
ACTCATCTTCGG	848.087933883766	0.18798521112569
CATTATTCATCG	848.118582467694	0.209858581604467
ATGACAGCCTTA	848.120388958889	0.225515188777413
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ACAGTCAGGGAT	848.129053445077	0.195231893274786
GGAAATAGTGAC	848.129264125015	0.165673482514044
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GCGACAACGTCA	848.132117147589	0.153758244802153
ATCTCGTCACAT	848.133747275371	0.175471379129818
CGATGACCGTAC	848.14228610535	0.204243563334387
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GATTATTCATCC	848.153199476277	0.159255129632394
GTGAGCAGTCA	848.1547326499	0.180843225188411
AGTCAATGCTTA	848.159064579589	0.213995091238059
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ACTCATTGTTAA	848.172261241356	0.157251281364254
ATATGACGGTCA	848.174286767969	0.22702386132732
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CAGGCGAGTCAA	848.193475511547	0.155238980080147
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ACTCATAAGTCG	848.20438917171	0.181395025239236
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ACTCATCGCTAT	848.215473766396	0.139874252027185
GTCACACAACAA	848.219431039528	0.231806412601112
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AACTGGTCAGCA	848.248584397197	0.166470018488539
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ACAGTCAGGCTG	848.252767854992	0.22307197403035
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AAAACGTGTGAC	848.284300767868	0.121577361886973
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CATATACATGAC	848.345757979768	0.170558117164213
CATATGACGGTA	848.347760392399	0.209394381423166
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AGTGTCAGACAC	848.420238609418	0.318588094650337
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GTCACACCTTAA	848.449151389242	0.15055144623781
CATCAGGTGACG	848.457249106904	0.217670593751837
AAGGGTATGAGT	848.469556690419	0.13632685521115
CGAAATGACAAG	848.471361157464	0.244006185963418
GCCAGTGACCCA	848.473470472591	0.147549042033594
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GTGACATAGCAA	848.483407832841	0.15133036484719
AGTCAGAGATTA	848.484528837498	0.19333114240009
AAGAATCGTGAC	848.486952658945	0.150295396205839
CCTGACTCGCAA	848.50651754774	0.192084490053891
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AGTCAGACCCCG	848.516256503274	0.308257357456851
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GACTCTCATGAC	848.638334125618	0.225129628536429
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CCAACAGTGACG	848.675267592443	0.224687538418914
AGAACTTGTGACG	848.680216911216	0.220690213860036
AGATATGTGACA	848.68022433547	0.219615957445288
GAGCTAGATGAC	848.682980640307	0.142751753971011
GTCATTGGAAGA	848.687038042699	0.16675629716121
CACGTATGAGTG	848.687064951287	0.284847509012329
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CAGGAATTACTC	848.812081052168	0.15296846204254
GTCACCCATACA	848.81294061276	0.242197365204517
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ATACGATGACCG	848.874043961717	0.176954107123832
GTTGCATCATAA	848.8804478703	0.18717876548058
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CCAAAGTGACCA	849.548611926007	0.156730372270384
GGACGCGTCAGA	849.550339806854	0.158366306750627
CGTCACCTTGAA	849.551174955965	0.201583686858458
CATGGGTAGTCA	849.558553678343	0.304760573808823
GTTACACATACA	849.56137404883	0.259667330449838
CGTCACTATTTA	849.565738662267	0.193356858223425
GCCGTTGTGACA	849.577236808415	0.227561575619617
AGTGACGCTGAT	849.578044013804	0.164008743746132
AGGTGGTGACAT	849.583053960173	0.254097521085441
AAGAGTGAGTCC	849.585589122238	0.223175299118133
ATACTACGTAAT	849.5905796501	0.186717000331818
AGGGGACTCACT	849.602558557926	0.157614712239431
AGATTGACGTAT	849.605647051437	0.19696318063687
ATGCATGACAAC	849.606379032707	0.147096819058161
CCACATCCGTCA	849.607289990604	0.175566409908896
CTGAGCAATTCC	849.607472549959	0.19148058560334
ATTAAGTGACAC	849.608928194605	0.155172049586874
ATTACACACATC	849.611724752407	0.205647025184897
GAGTGTGACCGA	849.620712495659	0.334255590726883
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ACCCTGTGACGT	849.626325200176	0.139480115213006
GCATCTTCGTCA	849.627341947145	0.218942278449668
CCGACTAGTCAG	849.628799499748	0.182684537649849
GGCAGTTGTGAC	849.630888725234	0.341435670622366
ATGACGCTCCGG	849.633246687726	0.277361484369745
CCATAAGGGTCA	849.640932887127	0.224127775996055
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ACTCTGTCACTA	849.658679611503	0.222187347664287
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AGTGTATCATAC	849.682909352497	0.22720253233813
CACGTGTGACAA	849.685509874082	0.150547006986439
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ACCGGCAATGAC	849.706129277573	0.230383527005876
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ACTCACACATGG	851.33775358731	0.211347588768681
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CCAATTGTGAC	851.367379220566	0.144509973792887
CACCTTGTGACA	851.376315915025	0.17403553436621
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AGGGGAGAGTCA	851.39043783079	0.176619688741
GCGGCGCATGAC	851.390841176369	0.217152760235284
CGTCACCATCGA	851.39195064187	0.208714419818665
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GAATGGTGTGAC	853.152798135535	0.0925467485641595
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AGTCAGCATATA	853.178506124951	0.190210794795236
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CTCTGACAGAAA	853.19662115631	0.202289316359338
CAGTATGTGTAA	853.201634009317	0.166517940744825
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GAACTACTCACA	853.21323059565	0.180222598643556
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GACTAATAGGTA	853.216755787493	0.196763663876154
CACTTAGATGAC	853.247729506346	0.20687748752529
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GGGTGATGTGAC	854.693679391057	0.133515186977605
GAGTCTGACAAC	854.710102016663	0.21142976581358
AAGGCAAATGAC	854.7119156602	0.20178813823223
ACTAAGTCGGTC	854.731266778192	0.230704438160456
AGTCACGAGGGG	854.733358155665	0.137761924803602
ACTCATATTGGG	854.734330058957	0.248869771377258
AAGACTAACCGT	854.738415136304	0.144768783181134
CATCTATGTCAC	854.740155726288	0.13373196285472
AGCGCGTGAGTC	854.743498556361	0.122874451903972
ATTCCGTAGTCA	854.754148931582	0.299996984109661
CTCCTATGATGA	854.761593984948	0.252795485820362
AACACGTGTCTA	854.76830525906	0.244775948364795
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ACATTTCTGTCA	854.791836988087	0.146132972519568
AGAGTCAAGGCA	854.793250126083	0.19886683612326
AGACGCGTGACA	854.796441114714	0.154023862158556
AGCAACCATGAC	854.797993707841	0.180995939894686
TCACCGTTGTCA	854.804414434624	0.18153953732545
CGGTGACAATAA	854.807232288399	0.205515070338341
GTTCTTACGTAA	854.809407771799	0.26773436688155
GACACGTTATGA	854.809888236435	0.20970519234388
ATGCGCTGACAC	854.812922321428	0.16475072801986
ATGACGGTAAAT	854.813012092854	0.168238091478794
ATCAGGCGTGAC	854.813370865275	0.218655362550777
ACCATGACAGAG	854.815769148597	0.163915866487596
CCACCGCGTCAC	854.816890430033	0.197456318343038
GATGCGTGTGAC	854.819102493748	0.193018715481966
AGAGTAACTCAT	854.827588053776	0.189442078137275
ACCCAGGTGACA	854.828961034317	0.143496702612448
AGGTGATTAATC	854.837143407986	0.139044034015122
AGCTGTGACAA	854.838791050788	0.182554761224276
TAATGACCACTA	854.844438307758	0.167747381727938
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CCCCTACAGTCA	854.85317715153	0.209752776897722
GAAGGAGTAATC	854.85406332267	0.176194533051975
GTCATGGGTCTA	854.859603304062	0.244144966997358
GGAACTACTCAC	854.860211561798	0.246405526432811
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AGAATCTGTCAG	854.869648102338	0.21480704847612
TGGATGTGACCA	854.870297123334	0.1616171804096
GACTCAGGCTCA	854.877155870861	0.177454778222454

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ATCACACGTGAC	854.880543769222	0.216398133232289
CGTCACCCTTTC	854.895911341747	0.167621315602357
CGTGCGGCATA	854.904446938337	0.151844444148361
GACGAAATGACC	854.909218938799	0.19259830384143
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CAGGTCATATGA	854.922528301279	0.185135581728074
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CACGTCGACTGA	855.000149428591	0.123551693970637
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CTGTAAGAGTAA	855.032538091069	0.190203941158736
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ATTCATTGAGTC	855.131026295003	0.16041861327083
GGTGATTGTGAC	855.146113893437	0.226710887537572
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CAGAATCGTGAC	855.238256393198	0.142843655230832
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AGTCAAGTCACC	855.255860510641	0.232678843983487
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TCATATGTGTAA	855.303770245	0.170634127487227
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GAGATTGGTGAC	855.314263674833	0.180989766960731
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AAGAGTCTTAGT	856.389569307278	0.152316016677013
GACTGTGACAGC	856.390049019349	0.264079677771407
CGAATCTGTCAG	856.396736519495	0.246233268268264
ATTACGCACATC	856.399316296192	0.148598296416011
GTCATGTAAGAA	856.400868307738	0.140523034803863
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AGGTCTGACGAA	856.411273819766	0.159235396054372
ACTCATCTTGAC	856.41708889045	0.160059795671315
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AGTAGTGGTCAC	856.425261194481	0.192280555297796
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ATTGCATCATGA	856.455072626086	0.149107298845312
GCTGGAGATGAC	856.461156552851	0.161558847236848
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CAGTGACGCCAC	856.519953127368	0.148738480339473
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GGTTGGGATGAC	856.540044336705	0.168068363948538
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AGACTGACTTAA	856.54277591717	0.212922622536755
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ACTCGGTGACCA	858.242729841015	0.194023868254875
GAACCCGTGACA	858.263855403151	0.184799623585863
GATCTATGACCC	858.269949511551	0.149338573105578
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GTCATCCCTCAC	858.282025817846	0.132091457724824
ATACTAACTCAT	858.284813123398	0.161010773798583
CATATGGTCACC	858.287180413321	0.175544340779813
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GAAACTACTCAC	858.399552665178	0.221790802348856
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CATTGAGTAAGC	858.437750044741	0.195168694934986
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GAGTTCGGTGAC	858.447325453482	0.259117374485782
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TGCAATGTCACA	859.914648991593	0.203321933663942
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AGCCATGACGCT	859.95495399348	0.229761912711634
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CAGCTACTATGA	859.970096084413	0.300431998970944
GAGGCGTGTGAC	859.972242113095	0.219659670359287
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GTCATCCCTACA	860.042394106191	0.147895570622395
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GAGGAGTAATAA	861.663445452881	0.146125787863511
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ACTCACACTGAC	861.784150913449	0.153583335764236
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AGTAACTCATCG	863.439890747283	0.141129341224229
ACTGACTATGAT	863.441926154716	0.170320175053774
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ACTGACGATTAC	863.444795729736	0.30467277158999
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GATCCACAGTCA	863.453461777093	0.17784545417897
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AAGCCACGTGTC	863.464800398388	0.182914925866117
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AGCGTCATGCTG	863.487724859583	0.203945968871982
GACCCGCTCAGA	863.489025057447	0.155998907696796
CATGATATGACC	863.490036792938	0.198347460420429
AGCGCCAGTGAC	863.505230990807	0.205094930620807
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GTCACCAGGGCA	863.528073452436	0.139270050929954
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TGACCCATTCCA	863.531258199351	0.218331982844401
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CTTTCCGGTGAC	863.556472639339	0.16656070102147
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GTCACCGTGCTA	865.026125800152	0.199916255795443
GCACCGAGTGAC	865.027510013135	0.255152366793544
GGCGTGAATGAC	865.034119462397	0.230491767278016
TCTGTGACCGAA	865.038107107906	0.173916474823693
TGAGTCGCGTAA	865.038684178574	0.194947337245307
CAGACTAATCGG	865.044379000238	0.178716436951709
AGCAATGACATC	865.046490598889	0.14821972773261
TACAGTCAGCAA	865.047654805043	0.141047153445017
GGTGTCATGTTA	865.053458215153	0.185243611911697
CTCTAACGTGAC	865.06797836377	0.187163501220621
CTGTCACAGCAA	865.078664301952	0.173154974033653
CTGAGTAAGCGC	865.079782931302	0.219169482453336
AGTCTGAGTCTA	865.085279167546	0.147243022963252
CCTATGATGACC	865.089275950462	0.216228150204843
ACGTCACCTGGAG	865.090214703132	0.188174756858278
CATACGTGACGC	865.096472606694	0.168166583419036
CACTTTGTGACA	865.101169177695	0.178585285072241
GTTTTACTGTCA	865.101912920803	0.257302948357608
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AGGATGCATGAC	865.123420602844	0.143551992719421
ACGTCATGCGCC	865.1269944969	0.116523344022161
GACATTGGTGAC	865.132846136986	0.14715443019195
ATTACTAAGAAA	865.141369677797	0.158641745284715
GGCTTAGACTCA	865.141756422441	0.143342390345222
GCGTCACCAGGA	865.16563045502	0.140102963161661
CGTCACCTTGTA	865.169776475071	0.205680892549646
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ACGTTGACGTAT	865.255854822618	0.140021558097845
AAGAGATGACGG	865.25896642747	0.143539095958825
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CTAAAGAGTGAC	865.271057760865	0.138167800387128
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AAATGTGAGCAA	865.277913232971	0.169124600129865
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GACACCGACTCA	865.300590304202	0.174565141594609
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CGTCGTATGACC	866.816320136998	0.211089576100329
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TCATCATACTCA	866.829781166115	0.136221191854532
ACTTATGACCTA	866.830832583112	0.11960164607997
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CAGCAGATGACG	866.91097985454	0.234732307702813
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GATATTTTCGTCA	866.91701828432	0.131180226539163
ACTGACACAGCA	866.918902228317	0.158937509298593
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GAGGAGTAATCC	866.924142607694	0.148352670328832
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GAGTCCTACTCA	866.956991774333	0.195536932660113
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GAATCAGTCTAC	868.606238079228	0.168737619252556
CGTCATTGCGCC	868.617613799413	0.143953392493477
AGTCGTGGTCAC	868.620970703121	0.139015004907574
GCTAACTGGTCA	868.626658350691	0.171966258425817
AATGGCGTGTCA	868.634314318179	0.219427904734899
AGATGATGTGTA	868.642777048481	0.135939403920005
ATCTCCAAGTCA	868.649857358206	0.179823975334229
CAGTCAGTTGTC	868.651638780828	0.167699526861745
ACTCACCGTGAC	868.651857126601	0.181262383566611
CGTGGGGTCATA	868.653241684395	0.159848618578283
ACACTTGCTCAC	868.671027892793	0.16431408456223
ACACTTACTAAT	868.678845156098	0.188936042281013
GTCAAATTGTCA	868.679573389552	0.287530397354338
CACGTTGAGTAA	868.682777696103	0.133665985402929
AGCATCCATGAC	868.701911245094	0.176773853831786
TCACATAAATGA	868.712358333793	0.129430981234032
ACCGTCTGTGAC	868.715299616061	0.160759259769533
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CACAGTCAGCTA	868.739636183259	0.140263707644902
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GTCACCATAGTA	868.754760233752	0.135447923334255
ATCCGGTGACAA	868.764670605419	0.164926152933876
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GTAGGCTCATCA	868.777198933264	0.180219127792878
ATCCAGGTCATA	868.782287511528	0.135988742644508
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ACTACGAAGTCA	868.792139813187	0.146451004658239
AGTGACGAGGTC	868.793206285477	0.130799143634011
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GCGTGACTTCAC	868.84201220112	0.166744595422153
GCGTCATGTAGA	868.842710101006	0.154290926074816
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GTCAGTACCTA	868.856783503924	0.168550671211896
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AGCATTATTCAT	870.244693332068	0.105179786980923
GTCTGACAAACA	870.245480941163	0.127353069831568
CATGTATGATGC	870.252279423429	0.180334943959252
CTCGCTATGACC	870.255941675083	0.183028066156809
CCCTCATGACAC	870.257821606298	0.168707495373975
AAAGGAGTAATC	870.265120930318	0.131035457452025
GTCATGTAACTA	870.265466080769	0.138150588254079
ATGACAGTCGAC	870.269269485144	0.179296625594449
GGCCATGACACC	870.27440137934	0.224692049520241
AATGGTGACGAT	870.281948805557	0.146190530804964
AGTCAACTCATG	870.284354417429	0.148645001258863
CCAGAGTGACGA	870.286366199012	0.132257385098986
CCTTTGACTGAG	870.287447739992	0.236661336132253
GTCACCCGATAA	870.291284278788	0.18959998363692
ATAATGTCATGC	870.295978485597	0.158573831607834
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CATGAGTCCGCA	870.310261739636	0.17404967129778
GAGCTTTGGTCA	870.316619182347	0.213784837663188
CATAAATTAGCA	870.317235715336	0.186367197969061
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AGAGGCAATGAC	870.336569259913	0.179815821081718
GGTCATTAGTAA	870.344065030823	0.176002080586852
GTCACCACAGCA	870.346878251417	0.135703212434682
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ATGAGTGTACCG	870.365182105294	0.13993396017111
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ACTCATTAGCCA	870.371735210994	0.157912632613772
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GAAATAGGTGAC	870.373482963484	0.213381336056426
AGACCGAGTGAC	870.383614205506	0.165975636288691
ACCCGGCATGAC	870.385912380949	0.149661901165664
ATAACGAGTAAT	870.391271812248	0.266627682624197
GTATGATTACAC	870.411633373729	0.273969801041386
GGTAAAGGTGAC	870.416626908712	0.17730183969454
ATTGCTATGACC	870.419342107989	0.16121683421072
CCCGGCGTCATA	870.426803140938	0.132239699759779
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GACATTGTCACC	870.464391868279	0.223083069670064
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AGTCTGACCCAC	870.502794131059	0.170084056524023
GTCACCTCGACCA	870.505985282873	0.181628531346396

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ATCCGTGTCACC	870.820631613054	0.138537062998104
ACTCATAAAGCG	870.820871719208	0.173378854516457
GACCTTGTCCACC	870.822970597763	0.167554399767805
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GTCACAGCAATA	872.001408006078	0.155337404028752
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TAGATTCGGTCA	873.76280201082	0.168952356276756
ATGCCAAATGAC	873.784619964479	0.169722963517194
CGTCACTATGTA	873.787380196136	0.212321624782394
ATTAACCTATTA	873.799494030461	0.212499916094067
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GTA AACCTGAC	873.813442517147	0.262476230685216
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TAACATGAGCAA	873.837543302405	0.137730603603429
AAGTCTATGAGT	873.841223520058	0.252276248736446
CATGAGCAAGAC	873.8434730694	0.100853143594472
ATGAGTATCATG	873.847690533932	0.176893115543624
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CTGTCACCGTCA	873.872002221672	0.143873803236121
CACAACATGTCA	873.877410239799	0.191997936825596
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CACTCATCGATG	873.889884009865	0.188717822770389
ACGTCAGACATG	873.891243514956	0.203503054244149
CGTCATCCACA	873.891387185544	0.177675606155006
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GAGCCCATGACA	873.979795296025	0.151353750386119
AGAAGTGACCAA	873.996842415443	0.0892539443004738
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GAGTATGATACA	873.997984071242	0.123678751655171
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GGAACCGTCACA	875.486488805198	0.18445082646039
TACGCATCGTCA	875.486646817032	0.122334217412607
AAACTACTCACA	875.489949732469	0.107410504825094
CACATATTAGTA	875.496735417952	0.283379818216123
AGATCTGTCAGC	875.517737945033	0.119067825082871
CACGTCACGGCC	875.526051750536	0.155488891934328
GTCATGTTAGCA	875.52613373625	0.137584662527571
AGAAGAGCTTTA	875.529201318921	0.123625822240448
TGACGTTGTAAA	875.53370100625	0.18126340075304
ATGTCACCAGCG	875.534152753249	0.0990809962825784
CTATTACTCCTA	875.553650376795	0.132461579024671
ACGTGATGTAAC	875.557076718526	0.129454034958006
CTGTGCTGACTA	875.565847224723	0.214205381529794
AATGTGGTGACG	875.56810632191	0.131566072486436
ATGGGGTCATCA	875.57017160181	0.153057101265139
CGATAGTAGTCA	875.58284952521	0.152061231117879
ATGATGTGTGCA	875.583220295396	0.272227876238857
GTATAGCATGAC	875.589473259329	0.226104819293099
CGAGCCCGTCA	875.600149536776	0.218319124649046
GGCTCATAGTTA	875.60249664778	0.184762923467963
ATGACATTAGCC	875.606380504725	0.217872860479149
GATTACTATTCA	875.612302770721	0.197159550379081
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CGCGCTTGTGAC	875.614678274326	0.168985123419998
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CTGTGTCAACTA	875.654255521669	0.174465353620393
GTCATCTGCGGA	875.661247242735	0.209719666533288
ATGTCATGCATC	875.66904940358	0.198688883114023
GCCTGATAGTCA	875.669705835509	0.236204658635168
CGTCACCCTGTC	875.681711877537	0.088326566936627
GATGAGTGTTC	875.68904162953	0.147039849541521
ATTCCAAGTGAC	875.689810734346	0.24888036100611
TCATGGTGACGA	875.697066750555	0.143978220970735
AGCCGCTGAGTC	875.703125965002	0.243291395163686
TGTCACGCACAA	875.719691021272	0.224284757472153
ACTAATTA	875.722580985813	0.198741365278319
ATGCTCTGTAC	875.748032539665	0.136650023416022
CAGTGAGTCCGC	875.748371367278	0.136297300304322
AGTAAAAGTGAC	875.75558625469	0.167509749744383
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CGTCACCAGCAA	876.051401449111	0.239208585452582
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TCATACGGAAGA	876.092448886411	0.146343735744216
TCTGACTGCTAA	876.093748681814	0.137268843156262
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GGTCATCTATCA	876.118429975767	0.239903239563955
GATTCGACTCAA	876.126214941147	0.180101930654065
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ATGACCATGAAC	877.332812545432	0.284535189518996
CAGTGAGCAACA	877.33371313327	0.176759397649071
GGTACCGACTCA	877.34085505826	0.160665328856041
CGTCACCAAGAC	877.341667139501	0.188412595654078
ATACTCATTACA	877.342149923198	0.158839052858269
GCTAGCTCGTCA	877.358200110483	0.272803825299238
AGTCCAGGTCAT	877.360687730784	0.152603770915042
GACTCACGCCGC	877.3697171374	0.105116960319026
ACGTTACATCAC	877.371848231049	0.206285932974633
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GCTGCATGACCA	877.376567535528	0.122241527794296
TCGCTGACTGCA	877.37946643406	0.131228346154875
GAGTTACATGAC	877.384314227752	0.261281314039159
GTGACACCGAAC	877.394561402894	0.201717862391038
ACTCATGAGTAG	877.403922550511	0.167844028434824
GTAICTAGTCAA	877.407106390167	0.21439992251937
CCGTCATCAAGA	877.411855894129	0.152317911466358
CTTTCGGTCACA	877.415227281752	0.219057179544483
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ATGTCATTGGTA	877.447651881501	0.166165231482485
CCGAAAATGACC	877.449002644215	0.180036383938673
AGTGATACATTA	877.449609954447	0.123294283569063
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ATCGTCACCCTC	877.461613320394	0.163874438589601
CTCATAATGTCA	877.467498495832	0.207962127739242
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ACTGGCTCATCA	877.472263200821	0.158056504970703
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ATATGACCGTAA	877.49946915771	0.136063811301988
CCTGGTGACCGA	877.499975702153	0.137218308032137
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GGTGTCTCATCA	877.51032265791	0.162605034364307
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GGAATCATGACA	879.239686575148	0.193230685581127
CAATTGTATCAC	879.2433538487	0.146125730253496
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AGTCAGCAACAC	879.25607728205	0.147697877865954
ACTCATCACGAT	879.2596528575	0.164135809465937
GAAAGGTGACGA	879.264911578506	0.137063263556689
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GCATCGTACTA	879.319761971469	0.171222153143211
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CAGCGTGGTGAC	879.389110064834	0.142194055833888
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GAGTAATAGGCA	880.913531253585	0.148072122353052
GCAAATGGGTCA	880.913860426338	0.1171130368807
AGGATCTGACTG	880.917561551209	0.139039024546192
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CATTATGACCCG	880.930350539326	0.156917341731504
GACGTGTCTCAC	880.930359642848	0.127492100866152
CAGAATGAGTGA	880.933966277385	0.144040325689899
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CTTTCTTGTCA	880.964293459549	0.217431487680882
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GTCATGGCTATA	885.046052009592	0.185868098939581
ATTCGTGACAAG	885.049034487901	0.135359839498043
AGCTAAAATGAC	885.050995327139	0.196891671940785
GTTGAATGACCA	885.05247085969	0.152388169230813
ACGTTGGTGACC	885.053592246605	0.195584158806829
CACCCTTGACTC	885.058364304713	0.114979629413569
AAGAGTAACTT	885.069636262628	0.169731196413013
CGTGACAGCACG	885.075185499382	0.13714451480474
AGTGAGTACCAC	885.090967104467	0.160435578145399
ACTTAATGACAA	885.101399882305	0.205874407542101
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CGTCACAAGAGC	885.103341553534	0.152082540468967
CATTTGTGACGA	885.11563603088	0.136951475702974
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CAATAATGACCA	885.159613944489	0.128469989808834
GTCATTTAGGAC	885.160728455557	0.167984253062577
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TCCGCTAAGTCA	885.16531857941	0.139822255055669
ATGAATCTTCGA	885.166889174192	0.210961867804487
ACTCATTCCACG	885.171495282397	0.13984762413908
ATGACGGCAACC	885.18899649248	0.150507304232952
GTAACCTGACTA	885.189015715031	0.122245134502089
GTGAGCCACATA	885.18960958653	0.155620537166554
CAACGTGTATGA	885.190292657687	0.183707494573924
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ACTCATATCTAG	885.218865626916	0.154810784252597
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ATGTCATTA CTG	885.231276311417	0.167877917736827
GTGAGCATGACA	885.232636963028	0.15885646573284
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ACTCCGTACTA	886.017825836884	0.155048345636028
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GAGCCTGTGACA	887.002513821423	0.154148931463297
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AGGATTAGTGAC	887.033968255297	0.116207606664302
GCATCGCAGTCA	887.036186753943	0.150004732637326
AAGTTGTATCAT	887.056926427846	0.109887690281865
ACCGAATACTCA	887.059983457378	0.124810529930773
AACTGACTAGTC	887.062057105026	0.155863107572947
AAGTCACCCCTCG	887.073698377115	0.160163319194431
CTTTCCGCGTCA	887.081038849361	0.119743206067545
ACGATTGAGTAA	887.082522174658	0.160660678178493
ATGACATTAGCA	887.089394037326	0.149474509553456
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GGGCTCGTCACA	887.097021818168	0.146464492752235
ACCATGACAATA	887.0985936035	0.195232986022335
ATTTCGATCAGTC	887.102531621272	0.145868735310801
TCGACGCTGTCA	887.106250794383	0.163618824894522
AAGTCTATGTCA	887.109508333663	0.144980437736066
ATTTAGCATGAC	887.109682041596	0.218551676955752
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CGTCACGCATAC	887.128121655784	0.175464794953671
AAGTTCAATGAC	887.139023693232	0.211943385692968
AAGAATCATACA	887.142386355819	0.146244237333752
TATGCCGTCACA	887.142950439573	0.116042789367761
AAGAATCATTCT	887.151541016704	0.157241299895567
TCCGACTCGTCA	887.159148469812	0.164095777316537
AGCATCTGAGTC	887.189717445198	0.206073067837884
ACGTGACATACT	887.192902821278	0.155779093758251
ACTCATAACACG	887.196956643608	0.158391613673167
GATAAGAGTGAC	887.203011268192	0.139142674488555
GATTGTTTCGTCA	887.209574485699	0.20764258172373
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GAGATCGGTGAC	887.216325652314	0.107336643492766
ACTTCTAGTGAC	887.225315316573	0.142066332091381
GTCACAGCGATA	887.230500563298	0.124933235968358
CGCCAGGTGTCA	887.230664427099	0.115383135581757
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ATGACCGTATTG	887.269518919461	0.191656842878627
GACCACTCATAC	887.289238060578	0.178006817331796
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ATGTCACCTTTA	887.300439693482	0.154788731857287
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GAGCCGTATCC	889.282461829667	0.219224618817417
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AAGCATTGTGAC	891.232415767098	0.111297935834266
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AAGTGACGTGCT	891.241067079715	0.173407561616596
GGAGCTGCACA	891.254031591684	0.0736152573763248
TACTCATCTATA	891.262033844407	0.076290756237848
GAGGCCCTGTCA	891.266705434635	0.153763624166214
GTCTTTGAGTAA	891.276225835154	0.18534527535035
CGTCACAGAAAG	891.281121378419	0.158408183395533
GGGTGATGACCA	891.282205009657	0.145982061609026
GACGCTAGTGAC	891.283293498398	0.124387323425472
AATATGACCGGT	891.284566725003	0.12736809715266
CTGACATATTTT	891.286098785762	0.182162391281654
AAGGGTCAGACA	891.286121336481	0.0943155595470359
CGGGAGAGTCAG	891.286694761251	0.0990545541392757
AGTACGGGTGAC	891.289449303787	0.147828727648833
AACGCACATGAC	891.292163076682	0.16211831071512
CACCCTGTGTCA	891.316446285997	0.0896704364019227
GGGCTGTGACAA	891.321794657169	0.147268381675785
GGATTCCGGTGAC	891.324586749033	0.226164735570379
GCCCCTTACTCA	891.328815355407	0.133595879581081
TACCATGACAGA	891.330987100828	0.100051315207888
GCGACGCGTGAC	891.334380395177	0.140725065952337
CAAGTCACTTGA	891.337719325653	0.21195252599721
ATTGACTATTGC	891.338330328667	0.145360014829393
ACGAATCATATC	891.346612157109	0.165988977241493
CCATGCACGTCA	891.350514794697	0.155215313762131
AGTACTAATCTG	891.352652173411	0.179944208742991
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GTCACCGCAGTA	891.35811626745	0.134219677703085
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GATGATACACCA	891.383996956105	0.169107829673607
ATGACGGTAACG	891.384050437405	0.172055119982307
AATGGCAATGAC	891.386612270936	0.207191872696691
GGTGTTATGTCA	891.388174071952	0.180881415099397
CGAAATGAGCCA	891.391531242779	0.134053576030308
ACGTCACGCCCT	891.419530280107	0.157956710279056
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GTCACTGCTTCA	891.42739199302	0.134881647394755
CGTCACCTGGTA	891.436002499174	0.15922100329411
GTCGTGACCCAA	891.43627778589	0.155036283956847
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TGCAATGAGCCA	891.504626943524	0.118725073555521

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TGAAAGGTGACA	893.328060836924	0.143388618602101
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ACGTCACTAGGC	893.363295307995	0.181482891030408
CTCTGACCGCTC	893.363532580143	0.137915253891227
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ACGGTGTACTCA	893.392205852175	0.163147691953416
AGCAGAAGTCAT	893.392666884578	0.18450925535538
GCCCGTGACAAA	893.396105356303	0.126296184074724
AGAGTGACCAAG	893.40096727308	0.119668709231338
GCCGAGTGACGA	893.401033097405	0.164334848273748
TGACATAGAGCA	893.409362273737	0.148327946855236
AAGAAGTAGTCA	893.415225282579	0.16896573431626
CTGTCACCGCAC	893.436043939746	0.151837547543701
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AATAGTCAAGGG	895.444081925262	0.155267142765399
ACTAGCGTGACG	895.450732773825	0.123563296646045
ACGTAGGTTGAC	895.450763556634	0.116790762896706
ACTCATACGTAG	895.4587205137	0.173490349707705
AGGTCATTAGTC	895.463893208265	0.113010920915681
GAGTGGTCATGC	895.472317925584	0.14032206163342
GCGATAGTGTCA	895.485792470167	0.110696265840494
TAGGTCATAACA	895.51126956683	0.216010086274446
ATCGTGACCGAA	895.513181004108	0.108013761942302
GTAGTCAACGGA	895.52181670478	0.116385382997033
ACTCATCATCAG	895.522595937282	0.125205472562922
AGTCAGATCTCC	895.532766989801	0.0998224590176371
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CATCTCGTGTCA	895.560283710174	0.161300337142666
AAGGGATGACGG	895.561126995137	0.102976224682283
CGAACTGATTCA	895.561471766132	0.163953992995528
GCTAAGACTAAC	895.564489374251	0.23118057977732
GCAAGTGGTACA	895.565909950495	0.173445527523946
GGGAAGCAGTCA	895.566939560333	0.112955890660312
AGACTCACGTCG	895.571504022912	0.127966138506368
CGAATAGGTCAC	895.572057155997	0.132467898639725
ATCTGTGACGAG	895.583583252197	0.130056677764104
AGTATGAGTTAA	895.584140246134	0.133091197892783
AGCACATGACGC	895.586917059516	0.1492429330253
ACCAGGATGAGT	895.590754833544	0.171509117917553
CTAATGACAAGA	895.600872568823	0.102152693515335
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GCCGAGGTGACA	895.614494256851	0.145165072312715
AAATTAATAAAC	895.636956318335	0.134150535357157
CACGGTCATAAC	895.641914623349	0.121355563896217
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GTCACATCTCCA	895.662364637303	0.158931858627294
GACGCTGTACCC	895.669676599434	0.110691891486176
AGTCAGTCCTTG	895.671964490338	0.142253402730601
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ACTCATAACACA	895.737354225724	0.100535134688156
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GTCATGTACGTA	895.749312227635	0.154491392038299
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GACGACTCAGCC	896.059957917472	0.133105516190039
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ACTCATTTTAAT	896.163292691726	0.122624461842604
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GAGTAATTTACA	896.26084606859	0.17651886927463
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CCGTCATTATTA	897.667178437114	0.136504350442064
CTCCGTGACGGA	897.689608128921	0.130878725170487
ACTTCTGACACT	897.689917158426	0.132446937983843
AATCACCGTGAC	897.694111133472	0.126671995269768
CCAGCTTTGTCA	897.69497708145	0.121255382389725
AACGGTGACGAG	897.695327089729	0.1103326327891
TAAGCGTGACAA	897.696804630703	0.129070041477745
TGACTTAGAACA	897.705717081722	0.149801993071481
CGGAAGTGACGC	897.707366845841	0.12974242419574
CATTTGGGTACAC	897.70947016872	0.137125774134337
ACATGGTCACAC	897.715571249168	0.109286815757594
AACGAAGCGTCA	897.718576600887	0.104148865918872
CTAGATGACCGA	897.727493674355	0.135342362926489
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CTCGCGGACTCA	897.734514898164	0.214453017795389
CAGTTCGCGTCA	897.736881643561	0.124108877475867
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GCATCATGTACAC	897.741215116723	0.143510436682003
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ATGACATTGCTA	897.765988554265	0.126398364240896
AGCATGACGATG	897.771977113559	0.185934560185059
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AAGGGTGACTTC	897.837016562907	0.149296213560358
AGGTGACAGTGA	897.84624729076	0.108745913247382
ATTGTGACAGCA	897.847975264969	0.15795991538845
GAAGTTGGTGAC	897.849945247416	0.144320386356299
ACGCGGTCATAG	897.85434537197	0.0995785911415788
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GACGACTCAACC	897.863454023235	0.100262199795721
CATGTAGTAATC	897.870285018074	0.100330584957128
AAGATAGTCAGA	897.873706589036	0.125070504873893
AAGTCAGAAGCA	897.880794012518	0.117454897749175
ACCTTGATTCAT	897.887904665855	0.16222821997565
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TGACCAACTCAA	897.935619536829	0.150305144557922
CTAAAATGTGAC	897.936801217784	0.186258113174248
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GACCAATCTGGA	898.426027216183	0.146367193714664
GATGAGTAGGAA	898.433597217271	0.110456794007187
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ACTCATCTTGAA	899.88081802986	0.0985515264217789
CGAAGACTAACA	899.896846161447	0.169569213396263
AGGCATGGTGAC	899.901567051563	0.154647560019326
TCGTCACCTCTCA	899.901860505437	0.167694883203806
CAGAGTTTGTCA	899.914459936728	0.125876690236086
CACGTGTCAGAC	899.915861985404	0.128327241691247
AGTGACACGCAT	899.926265686313	0.160789426972911
ATATGACCTGGA	899.930048941553	0.0720988024816206
GAACCTCTGACA	899.931234650197	0.144551490473494
AATACCACGTAA	899.936484244247	0.100940155359073
ATGAATTAGTCC	899.941367950365	0.195217952723336
AGTGTACGTGAC	899.961114315705	0.186831643369391
AGTCTACGTGAC	899.96740750212	0.186555486618067
GAGAATATGACC	899.973955706494	0.129859632523209
ACCCCTGTCATC	899.97408590155	0.113676106651594
GTGAATCAATAA	899.980477123559	0.0905517792659744
CATCCATGTCAC	899.983357941425	0.112544966547788
AGAATGTGACAT	899.98990060858	0.197851102422502
CCTTGTGATGA	899.990358790024	0.131510091737358
GAACATAGTGAC	899.999277732515	0.086616704804854
GCGGGATATGAC	900.004737728211	0.13179953757051
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AGGTTGTACTCA	900.026789820351	0.149680973527748
AGCTAAGCGTCA	900.038805525933	0.132720009262106
CGTGTGGTGACA	900.043368255826	0.150422194581546
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CAGGGACACGTC	900.048031243906	0.174188091666265
AGGTGAGCAAGC	900.053131481555	0.116739828691459
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ATCCAATTATGA	900.095213373125	0.103647411910038
GTCATTAGGGCA	900.098183243785	0.131735793071991
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CACCCAGGTGAC	904.203745401242	0.120456324387408

AAGGGTTGTCAT	904.215467736581	0.149074870378376
ACCCTGACTCGC	904.223670074194	0.129276341001071
AATGAGGTGTCA	904.223805882648	0.156361754726175
AGCTTATGTGAC	904.231340101692	0.107836611307709
CCGCTTGTGACA	904.232276151235	0.172656779171471
TGACTTATCAAA	904.238285836539	0.132825096646524
AGCTGAATCAGA	904.246445733081	0.183293940827816
TAGAGTGACAGA	904.249887554654	0.120819912994845
AAGAATATGAGT	904.257104826424	0.161409338895031
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CCGTCATGCTTA	904.267661903296	0.11692136542534
GGGTCATAGGGA	904.268105468515	0.105421315467788
GCGTCACCACCC	904.268422540771	0.136298294799556
TGCTCGTGACCA	904.271455628792	0.101555064295284
CGGGCGTAGTCA	904.273361243853	0.102485575495992
CATCCTGAATCA	904.280362978106	0.147350050122845
CGTACTTGGTCA	904.281654024297	0.131343823078878
CCTGTCATTTCA	904.292536253952	0.0927344434576427
AGAGAGCATGAC	904.293512089594	0.13467762414824
ACAATTAGTCCT	904.300146358292	0.148170231612258
AATGAGTAGGCG	904.301367589721	0.105812325783498
GGATCTTCGTCA	904.308058542274	0.117454248323796
CCAAGTCACGAG	904.311258565737	0.0821679460671556
AACAACATATAT	904.31229683273	0.178478714290364
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CCGATTTGTCAA	904.324542729231	0.095869458629281
ACTCATAACTAT	904.324697853045	0.0907885748544257
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GAAGTCGTCA	904.339633143459	0.124125670628046
GTCACCTAGCAC	904.34069515618	0.0926668565552499
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AAGACGTGGCTT	904.384771278661	0.13115930770184
CAGTGACAGGTC	904.401646480415	0.175788314585611
ACTCATTTTATC	904.402042373201	0.119502958452489
AGTATGTACCGA	904.404916639556	0.0983531012628931
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GTCATAACCCCA	906.495650931388	0.10386332432348
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CGATTACTCTTA	906.532011673489	0.133226600977065
CAGTCAATGTTA	906.533291708623	0.0934846459105785
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CACGCATTGTCA	906.538680129386	0.101161415000874
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GGACGTGACGAA	906.624638943615	0.132956731931662
CACTTCATGACA	906.630500681068	0.108114186917754
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GGGTCAGGTGAC	906.652066185994	0.0920859024797388
GATCAAGGTGAC	906.654989169443	0.110902299843698
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GACATGTGACAA	906.708944762253	0.181537994278522
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CGTCATGAATAC	906.740372936083	0.146525371837715
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GGCGATTACTAA	908.915180273576	0.130773913414869
GTCACAATCATA	908.922463519299	0.133920943378273
GAATCATAAGTC	908.931953627265	0.139269558872933
ACGGTGACAGTC	908.938602327817	0.107667380478614
ACGTAATTTTAG	908.947592580069	0.100971667738158
CAGAGATGACCA	908.953508612937	0.177610312700504
ATAGAATTACTC	908.961030445542	0.190723571281955
GATTAGACTCAA	908.974370894613	0.163217706550401
AAAGGATGATTC	908.984995178183	0.0966510219360135

GTCACCCTAGAA	908.991764340782	0.125863273782533
ATGACATCGGTA	908.99467814462	0.178379088281323
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ATGATGCACTCA	909.013494220968	0.148790496306683
ATAGTCAACTTG	909.014866894589	0.107933835601022
AGTCGGTGACGA	909.021103769604	0.163344455762924
ATCATGCCGTGA	909.039937335064	0.0993136319723314
GAACATGACGCC	909.051544795403	0.101757270487659
CAGAGGGTGACG	909.058897146584	0.132539979215805
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AGTGAGGTGTCA	909.085504106496	0.100679469561323
ATTAGACTCTTA	909.089407250358	0.129860815137183
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AGTGAGTCCGCG	909.173441234696	0.0830616185862333
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CAGATAATGACA	909.193321246816	0.161959287086487
CATGACAGCTTA	909.194566405467	0.115414095044526
AGGCTTGATGAC	909.194929345261	0.11225113045839
ATGACCACGGTC	909.196119872317	0.100048399353378
GACACTTGTGAC	909.208946764476	0.111320039005318
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GCCACATCATTA	909.233938030084	0.137179687925862
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CATGACATTATA	911.238117204835	0.109119596049272
CTCAGTCAACGA	911.245018306375	0.123566005058647
CAGTGAGTATAC	911.250071994977	0.125405561612685
CAATTCGTCAG	911.250320207663	0.112360348076648
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GTCTGGTGACAA	911.256105764893	0.098915312772095
TAGCTTGACTGA	911.292898336866	0.0710344132206401
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GACTAGGTGACA	911.314836955654	0.09441455001306
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GTTATTTCACTCA	911.331921584528	0.11664371752318
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GGAATCTGACAC	911.382528059659	0.114417139593401
CGTCATCCCGCC	911.384433054189	0.0923552626705009
AGTTACTGATCA	911.384493773365	0.141615479382337
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ACCATTAGTGAC	911.426877969279	0.141011403889129
AGTATGACCTTA	911.442639296106	0.114831325397271
CAGGCACGTGAC	911.444342050216	0.132309288312181
ACTGATGAGACA	911.454126818718	0.107954202494346
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GATCACGTAATC	911.470033412226	0.112768244496935
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TGACGGACAAAA	914.118362463898	0.143533857406903
ATATCAACGTCA	914.119993189023	0.123081470507371
GTCTGACGAAAA	914.124337734989	0.104679443330945
ATGACGGGGCTG	914.127668909996	0.121471116791923
GGTGACAGTCAA	914.1292850889	0.123122666211157
GACGCATCATGA	914.129676143626	0.0836335132338617
AGACTAATCTGC	914.143059695857	0.129268280161078
ACACCATGACGT	914.15042644388	0.0865434422755649
GATGACAGCCTA	914.159396565789	0.09795156111761
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GAGGAGCATGAC	914.174501444269	0.110995540360435
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GTCGTAGTGACA	914.200887421052	0.133872335199364

AGTCAGTAATGG	914.211371022516	0.120428059760342
ACTCATCTTAGA	914.21141471718	0.163750691079564
GGCAGCGAGTCA	914.222366251774	0.0653358585861278
CGTTAATTAGTC	914.237027424246	0.110617007905545
CGTGACATACAC	914.247673392245	0.184479612327152
GTCACGAATCAA	914.254727707814	0.168246140596755
GCGTTTAGTGAC	914.25681933082	0.109714458095733
TATATGGACTCA	914.285001365279	0.0770752398557251
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CAGTCAGCCGCA	914.308327365588	0.102004844770242
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GTCACGATTCCA	914.463776006659	0.0963401418481599
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ATTGGCTCATTC	916.589333821831	0.108014136510968
GTCAGATTGGCA	916.591378226702	0.126629557926363
ATGAATCAAATG	916.596894388295	0.098649125156275
AGAATGTGTCGA	916.601615568158	0.120165818681208
AATAGTAATAAC	916.610917523354	0.164158163938758
ATTGAGTCCCTAC	916.614797945834	0.119624154666421
CGCTGCATGACA	916.62177675171	0.0609314570452792
CCGAGCCTATGA	916.627089096525	0.0851892913514942
CGGTAGGGTGAC	916.631004946737	0.111764627191581
CCCAGAGTGAC	916.636063039766	0.172059642433288
CTAAATTACACA	916.663980497037	0.0820884874340461
ATTGGTCAACAG	916.677384444635	0.0841980299405366
CTGCCGTGACAA	916.681672512601	0.105372502846597
ACGCGGTGACCA	916.712557882392	0.106113057365973
CTATTAGCCATA	916.718920288959	0.118871391742438
CCGAATTACACA	916.7328338166	0.130908330820535
AGTTTCCGTGAC	916.745383185547	0.0834813880232189
AGTTGGATGACC	916.74718015148	0.144355490005597
ATACAGTAATAC	916.755686873701	0.135499625225539
CTGACTAGACAG	916.756122204462	0.0901698983285404

ACAGTCAGGGTC	916.762965572098	0.121533575727643
ATTGTAAGACTC	916.777043605754	0.177675018134545
TCGTCACTAAAA	916.779671755574	0.0889239175191483
CACGAGATTGAC	916.787734812947	0.163200777588405
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ACGTAATCATTAA	916.818349358521	0.141938991035096
AGTACTAATTCG	916.843014854043	0.10732238179556
ATGTAATGTAC	916.843232326682	0.180291005528963
CCTGTGAGCAAAA	916.846643027303	0.16497855814035
CAGCTGTGACCA	916.850144547206	0.092440941731076
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TGAATCAGTGCA	916.88104086211	0.106695521101092
ACCCGTCACAGT	916.88981774419	0.0654691924914494
GAGCATGACAAC	916.895362261547	0.104981000855258
GCCGGGGATGAC	916.902493466135	0.0834940657151862
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GCCGATCACTCA	917.235201890561	0.0965609426713631
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AGGTATGATGCA	917.2548411522	0.132930749518038
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CAGGGCACGTCA	917.273510483729	0.167309606216247
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GAAACGGGTGAC	917.30301518247	0.116757494343813
CTGACTGTCACC	917.313059329945	0.160972826969116
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GATGATAACAATA	917.552110199489	0.117399236384841
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TGACACTTATCA	918.770408200589	0.0734166673440686
GTCATGAAGTGA	918.77311482068	0.162207299160285
AACGGTCACTCA	918.773674690224	0.118251906004116
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CACCCAGTCAGA	918.784391182292	0.136658243001614
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GTCACATTAGCA	918.802211426822	0.108412128520457
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ACCGGTGACAAT	918.821236739536	0.0541085570302552
CACGTGTACAGAG	918.829542024388	0.109657426235594
GTCACGATGCAA	918.833032634827	0.0862986486160786
AAAAGAGTGACG	918.843937844448	0.107699111771222
ATGTCACAGCAG	918.846989050726	0.0933033392723925
GAATGGGGTGAC	918.849517032582	0.162141311164814
ACTCATCTGTCT	918.860711053996	0.0835026989854693
TATTTGACTGAA	918.870604474214	0.15558171396908
CCCGCTTTGTCA	918.889876417211	0.0781712362942732
GTGACGCGCGTA	918.90984600175	0.0912239440755684
CGTCACAGACAA	918.916449518967	0.100593491335938
ATGTATCAGTAA	918.928017389546	0.172568284480766
TAGACTCTGTCA	918.942434876608	0.109226151924112
GTCTGGGTGACA	918.943511035228	0.113026213857429
TCAAGATAGTCA	918.946193790792	0.0889717824987321
CGTAAAAGTCAC	918.951160925919	0.105404072053753
CGTCACACCAGC	918.955362670915	0.0947041325197496
ACTGACGTACTA	918.96676023002	0.11971611593863
GCACGATGTGAC	918.985694368431	0.0848933810504729
CACCGGTACATAC	918.985748372571	0.142225039999461
GTCACGTCCGGA	918.986141123006	0.116341680608972
ATTACTCTAGA	918.999008821506	0.123006922689722
ATGACAGTCCCG	919.007783682231	0.105471894051505
AGTTAGTCGTCA	919.008410784314	0.167461513432227
AGTGACAGTGTC	919.0251285836	0.123939778011811
CCATCACGTGAC	919.030163257554	0.0927808798614644
ATGTGACGGTAC	919.031140386351	0.15408122933684
CAGCTGTGTCAA	919.034209942062	0.144199326578333
ACGGTCATAGTA	919.038757990888	0.125948846531332
GGTGACAGCGAA	919.057514791614	0.0945474379834984
CATCGCGCGTCA	919.067354936032	0.114609548257375
TATACATGACCA	919.070965240546	0.115577543367175

ATGACCGTGTGA	919.079870843899	0.106012243657296
GTGACGTGAAAC	919.10133483547	0.111227304569241
GTGAATCAACAA	919.101384694944	0.1557508903867
GCATGACCACTA	919.103038895299	0.089622056005633
ATTGTCACCGTC	919.106709289714	0.14723500186787
GATGAGTAGATA	919.107891154422	0.0893269064195553
ATTACGCAATGG	919.113564488444	0.0908347219178552
ACCTGACTCTCA	919.128479504494	0.0898133292470201
GTACGGTGACGA	919.145854801532	0.160015469995601
AGTGAGACATAT	919.173475888248	0.0849709605382371
TGACACTACCAA	919.181038913969	0.100859787209443
CTATTACTCTAA	919.181347518053	0.0935861578383244
TGTCACCGATAA	919.184448454043	0.0939013936738564
ACAGTCAGGACC	919.198340929788	0.0860234813022395
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GTGACGCCAGCA	919.202877347069	0.134825527374322
GAGAATGAGTGA	919.213707929223	0.0980363084037876
ATGAGCCAATGG	919.21635361291	0.0998067994303275
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AGTGCAAGTCAC	919.288899356618	0.0790478946832312
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ATCGGTGGTCAT	919.296873812659	0.0925865440044185
ATAGCCCGTCAT	919.298745859709	0.102532516260419
CTGACACAGTCC	919.300403990066	0.136996596625602
ATCCGGTCATCC	919.302973951262	0.105308835273246
TATGGGTGACGA	919.313309140502	0.139669432148685
GATGAGGTCACA	919.32390882245	0.121010718801075
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CGTCATTTAACC	919.347555990001	0.106428944118008
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ACTATTACGTTG	919.359128384443	0.139452802657554
GATCAATGAGTA	919.359355237566	0.0892384921375865
CGATCAAGTCAC	919.360591552869	0.0846353836299728
AGGTGACACGAA	919.361591977401	0.0682872951366953
TCATTATGTCATA	919.364852543186	0.129565653102114
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AACTTGCTCACA	919.420071835609	0.101831244821748
GAGGAGTAATCA	919.433882223026	0.146024030631207
AAGACGTGTTCC	919.472540751073	0.121953979810681
ACGTGACGGGTC	919.482461235953	0.154052314919955
GTGTTATTCATA	919.491088511069	0.125692554176974
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GCTACAAGTGAC	919.495998475665	0.115672495678303
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ATTATGTGATTC	919.499640599594	0.153861288894585
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CGAGTCAGGAAG	919.50718712335	0.103992880213775
ACTCATTTGTAT	919.50748800278	0.113298196491243

ACTCGTGACGGA	919.510440895349	0.115709791217678
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GAGTAATCACAA	919.54208710806	0.112206350510525
CTAGGGTCTGAC	919.543741298745	0.102488394021225
GGCTCTACGTCA	919.544351048412	0.0930868013371679
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AGAACATGACCA	919.55466726575	0.114720916380768
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AAGTGTCAACGA	919.628798903139	0.103532017967138
AACTGTCGTGAC	919.631094557113	0.0734388202379591
AAGTCACTAGTG	919.651319294779	0.116134115140336
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CTGTCAATTTGTC	919.698437048762	0.108461170033551
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ATAGTCTGAGTC	919.713476227708	0.166675749020383
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GTCACGCAGATA	919.731984259657	0.0924948673890242
AAGTCATGGTAT	919.744079359209	0.087312650879522
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ACTGATCAGTAA	919.757493454093	0.134913927853119
AACAAATGTCAT	919.76745749604	0.0891543959846349
AGCCCGTGACT	919.767627891692	0.0759496114843927
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TACTCATCTCGA	919.78002721023	0.0921029923265581
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CAGTCTGCTGAC	919.797121659283	0.122001660612966
AGGATTAGTCCA	919.797213988212	0.10052116811372
CAAGGCATGACC	919.805443723133	0.117559888760982
AGTGTGACACGG	919.809088573525	0.152151386405126
GATATTTGCTCA	919.813622389588	0.133106892644374
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CGCGTACTAATA	919.827046779038	0.107151761741598
AAGTCACCCGT	919.829251748262	0.1182568998626
GTCATTGCTGGA	919.830724113564	0.168757296939399
ATAATTAGTCGC	919.843159857197	0.120178662688895
ACTGTGACATTA	919.861020921892	0.168589336974051
GTCACCTCCATA	919.863320194698	0.106664651689122
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GGAGATGGTGAC	919.943531834753	0.0913302136214755
GAAATCTCGTCA	919.9455956119	0.139591291240079
ACTCATATTCTG	919.950321316053	0.0673115044642878
ATGAGTAGGCTG	919.951030150354	0.102053377354676

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GTGAGTGAGCCA	919.97442708196	0.112257076339442
CTCGTAAATGAC	919.989389141024	0.168466657837555
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ACGCTCTGTGAC	920.058841501658	0.103361630178541
GTATAATGAGTA	920.059741633235	0.162077638743762
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CCTTCCGCGTCA	920.080686280993	0.145239806199852
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AGCTATCGTCAC	920.096276825221	0.108213380588302
GATCTTGTACC	920.101655058217	0.116226307811205
AGAAGTAGTCAG	920.127203212924	0.128357342489774
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ACTCATTATCC	920.154884734521	0.0942107616822628
GCCACAACGTCA	920.180120900565	0.101117398706328
ATGAGTATGTAG	920.180799582229	0.117145017112506
ACTCATATTCAT	920.212682785485	0.0938490339347227
CGGGACATGACG	920.233162456341	0.0904282114214694
GTCACATGATAA	920.241236994816	0.124160386524907
CTCTAATTGTCA	920.243159712121	0.082188132662925
AAGTGACGTTAT	920.259943555235	0.0827723565330346
TATCTTAAGTCA	920.270999057786	0.0996320578986741
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GGACCTGTGACA	920.291766411572	0.105060483471281
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ACTCATTCTCG	920.349808342905	0.108857572185154
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GCTGGTACTCAC	920.36107017646	0.144608220363449
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CTCTCGTGACAC	920.706843083589	0.100422297741101
AGACATCATGAC	920.708022319825	0.0772746494637469
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ACTCATTGATCA	920.770297442075	0.113297841924764
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CAGTCAATTTAG	921.04743715555	0.119674068608292
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ACTCATATAACG	921.140788340682	0.123745694626639
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ATATTACTCGTC	921.322846890306	0.128551388563543
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AGACTAAATTAT	921.339585395106	0.106627863902887
CGCTCCAAGTCA	921.35746497651	0.100499115057901
AGCAAATGACGG	921.365120204737	0.0893847755467315
ACTTCCATGACA	921.401547529412	0.0788526680105675
AGCCTGTGACAT	921.403978617635	0.140743605024458
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TACGAGTGACCA	921.413726411671	0.13394738920366
CCTGTAGTGACG	921.424414920766	0.0990362007357391
CTGTCACCGCAA	921.428001650623	0.11336990204771
AGCTGAGTCTAT	921.448132340131	0.0818796605670643
ACTACTGACGTA	921.449293514605	0.120566232787586
TCTGACGAAGAA	921.456158638779	0.104383654556405
GCTGTCACGGCA	921.462763373074	0.128405353508272
AATAATCAGTCT	921.466660556615	0.12166619685712
CCTGACGATGAG	921.482940230196	0.130896103740457
CGGACGTCTGAC	921.487256049814	0.12187381840492
GTATAACTCACA	921.498001126359	0.0860644207541325
AAGAGTGACGAT	921.49821549023	0.089837451545192
ACCTCGTACCA	921.500821760913	0.0996856515213559
GTCATTGAGGGA	921.501486718623	0.114666674239244
GATGACTTGAAA	921.503666528007	0.111075965334813
CAGTTAGTCTTA	921.508154648444	0.146667172242994
GTCACGTATTAA	921.51511642628	0.0963732292114489
ACTCATTGCTA	921.535371239991	0.135829352790157
GCGTCATGGGCA	921.542140863661	0.0967455475773145
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CTCGACTCAGAC	921.572269504643	0.0825760135093774
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ACTCATCTTATC	921.619302589283	0.139202899410576
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CTATGAGCTGGC	921.629335534424	0.121566176214609
CGAATACCGTCA	921.641688985496	0.066493526058323
ACCCTGTGACAA	921.642373561419	0.106212942291029
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CAGAGGTAGTCA	921.669182032256	0.128623632691845
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AGTGTCAGCGTG	921.685666747209	0.12136396497688
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AGGCTGGTCATA	921.863955168536	0.11335047438527
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CAGAAAACGTCA	922.11127641103	0.11962780855234
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GACCTGGGTCAC	922.159777002517	0.116938948007764
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AGTATGATGCAC	922.235785114169	0.0941840988242269
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CCCTATGATGCA	922.258776931134	0.109063207418901
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GTCATGTATAGA	922.273069905599	0.0987071938130112
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ACCGTTACTCAG	922.323361669643	0.11490613040476
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ACTCATCCATCC	924.279316137247	0.0866746239981876
CCTTCTTGACTC	924.282113862737	0.116914458344875
ACTCATACACCG	924.290982279866	0.140466377495966
AATGCCAGTGAC	924.29887724164	0.106143055624197
ACGGTGATGCAT	924.306560944168	0.121003299668291
AAGTCACGCGCG	924.307935209259	0.075813179790612
AACTCATTGTCA	924.310565872989	0.117880354655017
ATACTGACTGTC	924.330821227646	0.104885655373012
CGTTGACTACAC	924.331539260297	0.175025101309342
ATGACACCCGCG	924.333987362658	0.130007160427622
GGGGCGGATGAC	924.338932531132	0.113593979004118
ACAGGTCACACT	924.350720684358	0.0938773034641623
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AATCATACTCAC	924.370676111502	0.115741736196594
AGGCCCGTCATC	924.384948386466	0.108815713264602
TACTCGGTGTCA	924.396350742189	0.0964480548596108
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GTGACAGAGATA	924.39973362136	0.083950678484454
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TCTATTGGGTCA	924.42280943233	0.0881087296011419
GAACGGGTGACA	924.423644607102	0.0727845702632338
GGCTGAGCAATA	924.423956085048	0.0964036433076844
TGACGACGATCA	924.428825339295	0.0950799167111798
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AGTGAGGGTGAC	924.433323054946	0.0984394845856661
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AGTGACGTTGAT	924.490819295349	0.114235517457774
CTATGATACACA	924.501503894155	0.116217180908087
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ATATGTCTCACC	924.51758836279	0.0873264481275216
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GACGCATGACGA	924.531221974104	0.110465727201909
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GTGACCACTAAA	924.595108181661	0.089000636704601
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ACTCACATTGCG	924.682343860522	0.120113324644311
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CGTCAACAGCCA	927.179593350474	0.116371098777091
TCAAGCACGTCA	927.180774766599	0.0899113907687688
GGACGTTGTGAC	927.219894963336	0.135192097768505
AATTACTCTACC	927.23661067431	0.0834001932286209

ATATGTCAGCAT	927.256799336752	0.106802278391158
AGAATAGTAATC	927.259187031244	0.0751181595897425
ACTGTCACATTA	927.266499919248	0.121018711957537
CGAATGACCATA	927.269429155419	0.131640748181736
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ATATGACGGGCA	927.309097581651	0.0872003578835465
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GACCCATGTCAC	927.314330712776	0.0730782500711076
TAGTGACCAAGA	927.319571008837	0.101184913966787
ACAGGTGACGAT	927.342570357223	0.0969771028051246
GGAGTAATCTTA	927.381563809317	0.0843887388713257
CACCCTGTGACG	927.388418058011	0.100018612160413
AACTAGATGAGT	927.406490807201	0.0855095296139763
GATCTTAAGTCA	927.422108727741	0.0953994742988555
TGACGCTGTCAA	927.424679313625	0.0899438672076109
CAGGACATGACG	927.467162874856	0.0859906618271322
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CACGTAATATCC	927.499802230235	0.10276922340188
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GACTGACGAAAC	927.650962909387	0.0995258377411514
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ATGTCACCATGC	928.146679042028	0.103898381247872
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ACTCATTAGGAT	928.189067984048	0.0989961251877971
ATAGCGCATGAC	928.203764984389	0.0684726784811891
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ACCTGCCGATGA	928.234400451809	0.0979399190866516
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CCAAGTCAGAGA	928.282986774668	0.0754805049525509
AATTGACGTCAG	928.297737006345	0.0830098503861769
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AGTCACTTGAGG	928.370867731865	0.0847718109108477
AGAATTA CTCTA	928.373028312017	0.0965350643952111
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TCAGGCTCGTCA	930.186776055788	0.0742135592232814
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ACTCATTTTACT	930.221283144917	0.0903269033997312
CCGAACTGATGA	930.240067977129	0.0868548896155072
CAGGACTGACTG	930.244477285858	0.0941310731480533
AGAAGGTGACGA	930.244953088602	0.0808538838893853
GGTATCGTCAGA	930.247673547813	0.0999001382906681
CCTCGATTACTC	930.249495024299	0.0911536517917068
GGTGACGAGGAC	930.25265417044	0.119943762928839
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ATCCTTGACGCA	930.290720412347	0.0919423925448596
GTAAGTGTGAGA	930.293372295647	0.0971862783355837
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ACCGTGACACGA	930.321777591283	0.0721831467988448
CCCGATATGACC	930.327711924473	0.0895238717150028
ACTCATGACGAC	930.356503816921	0.0445990787926368

AGGTCATCAGTC	930.360845308152	0.0921080056358385
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AGGTTACACATA	930.375193939416	0.0663533885694582
AGACATTAATA	930.379145613864	0.0897296946069942
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GAGTGGCTCACA	930.400417000952	0.082206956331837
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AGTGACAGACCA	930.417133598062	0.0744261816032507
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TACTATGAGACA	930.423813723377	0.146433231239068
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ACTCATATGCGA	930.426974835	0.103281062452848
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AAGTGTCAGTAT	930.487380665699	0.0736693528049125
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CAGGTGACGATA	930.502348816745	0.0823824374676052
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GTC AATTGACAC	930.899930411177	0.08744862777098
CAGTCTATGACC	930.908672632984	0.0757722761286359
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GTCACCTGAGA	931.489234707598	0.110024824530822
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GTCACCAAACCA	931.738556181906	0.070970573323212
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GTCGAAGCGTCA	933.124389805644	0.0965734200273672
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GTCACATCTAGA	933.140990235263	0.0798378733601503
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GATGGGAGTCAA	933.300798244873	0.0736385615745794
AGTGTCAGAGAC	933.304141268343	0.0701516189866521
ACCAGTCAGGGG	933.30679983276	0.119819365751573
GAGTAATCGATA	933.324864142291	0.0822467742816346
AGCGAGTCAGGC	933.336518620775	0.0887028673676729
GCAATCTCGTCA	933.342694234044	0.134959316963815
ATCTAGCATGAC	933.394124282897	0.101392936737387
GGGAAATGACAA	933.415777705776	0.0810580778636139
AACCAATGACAT	933.416124914579	0.0778997405049641
CACTTACTCAGC	933.417474216049	0.101529604918241
ATGACGTTGGAA	933.417563148574	0.0764571807746822
GAAGGGAGTCAA	933.426144120983	0.0907549603456612
CCGAGTGACAGC	933.453380669706	0.144076695774233
GACTCAGTTCTA	933.456090872199	0.0680595480469843
AACATCGTCACT	933.458049651876	0.0884910589684118
AAGGCAATGACA	933.511086233789	0.0919409556212897
CGAGTCAAACAA	933.524753946434	0.0796025857138694
GTGACAAGTAGA	933.529714452814	0.0645186504170908
ACTACATGAGTA	933.529829513252	0.118467190761236
GCCGACTTGTC	933.533624472564	0.0814370181974761
CCTTTATGACCC	933.53755852069	0.100427617184865
GTCACAGGGTTA	933.538131217391	0.10389260834919
GGTTTTGTCAGA	933.540561748526	0.071498884418105
ACGCTTTGACTG	933.542219651315	0.147086819960009
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GAGAATGACCGA	933.547127320773	0.124068876053394
CAGGCCCGCTCA	933.563765990819	0.145316178694269
GACATAGCGTCA	933.564834794731	0.0764382808251128

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CAGCTGTACACAG	933.594018262155	0.12980945928978
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GAGATGTGACCA	933.647021329834	0.0825740463836819
CATGACGGTATC	933.658701020817	0.109331588839697
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CACATAGTGACA	933.700555466859	0.096804009854909
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CAGGTATGTCAC	933.740299354284	0.103581273702242
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AATGCTTCGTCA	934.35560042152	0.0885123717872139
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GACTCAGTCTTA	934.385386085165	0.0680749099794956
CAGACGGTGACG	934.391785451433	0.120386988730501
GAACGGACTCAC	934.398556815022	0.117496726342031
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AAAAGCAGTGAC	934.928007997061	0.0921535424848862
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GTCAGTGCAGCA	935.408280174717	0.0997196184685291
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AATCATATGACC	936.517039211719	0.0971798079116969
AGTGACTAGCAG	936.528410380646	0.0732874142998845
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AAGTAAGGGTCA	936.561577447874	0.0956238853284449
CCGTGACACTCA	936.562424783442	0.0666610418491579
AGAGGTGACACG	936.575577222092	0.0674362629651867
AGGGTCATTTGA	936.594153567043	0.116341181246563
AATGACCACTCT	936.600158086697	0.108091441927826
ACCGTCACTAGT	936.600868996173	0.109267527917481
ACAGCCATGTCA	936.601955859514	0.0852166048060224
AATACTGACTAC	936.618977682566	0.0766509898895427
ATGACCTACCG	936.63768476536	0.100490006108801
CAGGCTGTGACA	936.645078611812	0.0628249070115496
ATGTATCACAAC	936.658805599357	0.0748968332137902
CACAAATGTGTC	936.686084607973	0.0714686572522482
CACCTATGACCG	936.7086406723	0.124866726547259
AACTCATACGCA	936.714084330971	0.103288376970015
CGAAGATGTGAC	936.718750661483	0.0660752707931696
GACTAATAACAA	936.735455458447	0.0890091039015622
TCTGGTCTGTCA	936.758962148334	0.0869396408581388
CCGTCATGGTTA	936.759479268627	0.0488715300212582
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CGTCACATTA	936.873677130084	0.103036882120677
TACGTCAGTAAA	936.898391309169	0.0622872932341917
ATGATGACCGTG	936.933886480967	0.087381744149584
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CTCGCCGTCATA	936.944583975857	0.0796700584864191
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AAGACTAACCGG	937.042907349547	0.0736254297653579

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AGCCCGTCATAA	937.097210446775	0.0807628335399728
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GTCACCTCGCATA	937.571384513465	0.114371606121592
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CATGTCATGGCG	937.711381421327	0.0763682966438143
AACTACGTGACA	937.722110226787	0.0859235645468715
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ATCCATCAATGA	938.19851428607	0.130705865460276
TACCCACAGTCA	938.2026136738	0.0673952864697961
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CGAAACATGTCA	938.270806945579	0.065523182106473
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GTAATCCGTTGA	938.77156641656	0.0644629976805711
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ACTCATACTCGC	938.925850622367	0.0372200864563761
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GAATCATACTCA	939.674490662073	0.0672282500435444
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GCTTACCGTGAC	939.956068308496	0.103182473719128
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CGTCACATAACC	940.063353096724	0.102316333173609
GAAGTGAGCCAC	940.074217629154	0.0711050076710198
AGAATGACCATA	940.080373767527	0.082287320267511
AGTCAGCTCTAT	940.080765433487	0.132306226565946
CAGTGACGCGGG	940.085657524527	0.0862777630053234
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AGTGCACGTGAC	940.107500741243	0.069974036600671
CGCTATGATGCA	940.117436379169	0.123512897566721

ATATGTGACAAG	940.12988978774	0.10845491718498
GGGTCATAAGAC	940.14475527186	0.108977767790734
CGACGTGACGTC	940.160208496796	0.0835198930983266
GTGCGTGACCGA	940.181118382403	0.0623543666484389
GTGACAGTGTA	940.183875392501	0.11186618702392
AAGGGTGACAGT	940.189064844746	0.0635093297685144
AAGTCACGACACA	940.197141584728	0.0830132025260232
TACGGTCATAGA	940.211208145546	0.0814474368729939
GGAGGCAGTCAC	940.21219171209	0.0630360638682063
CGAGTGGGTGAC	940.232390381868	0.0706609634935912
AGGTACTCAT	940.243229016199	0.0798067095202377
ACCTAAGACTGA	940.251022721802	0.113726050598363
CCCAGGTGACAG	940.263453863063	0.0742082727016822
AAATTGTCAGAG	940.271694211215	0.0577639318701734
AGGTAATGAGTA	940.275852819237	0.0830528910060119
CGAAAATGACCC	940.276386124723	0.0707821134549756
GACTCTGCCAGA	940.294450402491	0.0961029074232188
ATTACGAATAAT	940.29630811801	0.0908693230012642
TCACTCGAATCA	940.305260109376	0.0876685031649573
AAGTCACGACAAA	940.31154114936	0.0670871641474811
ACCGACTGAGTC	940.342397810627	0.0612997282065195
GTCATGTCCAAC	940.344656476852	0.0802480610920212
CTCTCTTTGTCA	940.34559571645	0.131696896342465
CGTCATTATCCC	940.347358760537	0.100899675640502
ATGCATCACATG	940.35103038248	0.112378644419991
GAGTAATAGGTA	940.394010284827	0.0824206237475983
AGGTGACAGCGA	940.413536120149	0.0741237017449008
AAGAACTGACTA	940.419021921684	0.0859174622014279
GTCATTTGCGCA	940.422235792104	0.0877692653252618
CCATCTCATGAC	940.42460132393	0.0845987082319014
ACATAATTA	940.428185664105	0.112583097972063
ACTCATTGTTCC	940.452753927331	0.0853683686095914
TTCTTGACAAA	940.483263509394	0.0745796051777761
AGCCACGGTGAC	940.497386592179	0.120463976308939
CGCTGGGTGACA	940.515575609822	0.0927752837600587
AGTGGTCATTAG	940.532533426127	0.0602443258046368
CTATGACCCAC	940.542255070823	0.0796033727105636
ACTCTTGACACA	940.549537743444	0.0663356153155003
CTATTAATCACC	940.553806559009	0.0704709991952655
ATTTTCGTC	940.62150303436	0.077539901696611
AACTGAC	940.626876501027	0.0916092980921738
TAACGATTAGTA	940.632437039873	0.0841390975166265
CTCATGTGACCA	940.654661786687	0.0943957243314521
AGTGACGGAGAT	940.661567091228	0.0998070093262289
AGGGTGAGCAAA	940.672423896387	0.0633709451503818
AGTACGATGACC	940.673819540533	0.0613519731098296
AATTGCATCACT	940.701963032782	0.119074852727436
CGTGTACGACCC	940.725036795421	0.0846774220601419
GCTTCATGACAAA	940.728371761447	0.0840380858178427
GATAGGTACAAA	940.729580076296	0.0755343747253434
GTTTGGTCAGCA	940.745593256509	0.0993435169316605
AAATGATGCGTC	940.758754571877	0.0378523930554256
ATGAGTGTACAT	940.775475552379	0.0743151025169311
AGATGACGGGGA	940.795999254608	0.101820237499328

ACACAGTATGAG	940.805656692495	0.0879152089560341
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GTCACCGTCCAA	940.837207284275	0.109539479145423
GACGACTCAACA	940.875623634203	0.102515229481392
CGTCACAAAATA	940.880036835725	0.0735388917532578
ACTGTCAGAGCT	940.892720193949	0.0971856326333256
GGAGTAATAGTA	940.897814046148	0.0934815692485531
TCAGGCATGACA	940.97234126347	0.0991350633136411
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ACTAATAGGAAA	940.999416812334	0.112965792829189
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GTCACGTCTCGA	941.015147788378	0.109113847211169
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AATGACCACTAT	941.043148170617	0.0605006281137552
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CATTCGTAATAC	941.051265264705	0.131912773782549
CAGAGTGACGGA	941.058042444927	0.0748534082970343
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ATTGATTGAGTC	941.170430225236	0.0806254188095582
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ACTCATCTTCAC	941.223345049138	0.067620487494058
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AACCGGTATCC	941.285235490253	0.0968461813006133
GAAGAGGTGACA	941.312896775339	0.0995991357410571
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AACGAGTAATCG	941.348354134342	0.0718052793404957
CGAGTCAGGGGA	941.356469394893	0.0720750621423826
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ACTCTCCGTAC	941.36081998054	0.0700260592272192
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GGTCATAGGACC	941.405897420115	0.084994512148786
GTCACCCTAGAC	941.42523874444	0.0829118928027371
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CAGTCCGTGTCA	941.566860216692	0.0836952681128617
ATCGATGATTAA	941.600779069224	0.081260420195306
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GACTGAGCAATA	941.687443315452	0.0675450642329591
TGACAGTGCCAA	941.69189891318	0.129050644613464
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AGCAGTCAGTCC	941.74796317015	0.0713567884421004
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GAACTCTCTGAC	941.756106436514	0.060354045241812
CACTAATGTTGA	941.768910723323	0.0727404064790928
AGTGTGTATCAT	941.791852061102	0.0663264439359474
CGATTGACACAA	941.79427885335	0.0959743085013324
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ACTCATTTTCT	941.874831506469	0.0748951674021555
TCGCCTGATTCA	941.895669397637	0.0791279964540529
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AGAGTGTGATGA	942.029997355921	0.101286754445064
CATGACAGTCAA	942.040400484163	0.0634905603152316
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AAACTCATTC	942.065250627234	0.0597541401903721
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CGTCATGTACAA	942.106768163805	0.073848542558449
AATCATGACCCG	942.155116990627	0.128586457191513
CGCCACTAGTCA	942.188088681327	0.0668763465707434
CCGATTACTCGA	942.190288487909	0.0936716942512714
GTCACCTGGAAA	942.227890309161	0.0901960814680003
AATATATTACAC	942.238146254587	0.0864549624694067
CATGTCACCCTA	942.256163972646	0.11544619486791
ACTCATATCTCA	942.260614099912	0.061006851699374
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ACTTAATTGTCA	942.284448702985	0.060406687706972
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CCTACGGTGACC	942.353231569996	0.113490097170773

AGCTGTCATGCA	942.382346071017	0.0872272581031664
AGTCAAGTCACT	942.396923356681	0.05697432894872
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TACTAGTCAGGA	942.473266434346	0.0607110211338809
TACTCATTAAATA	942.474647365279	0.0883814701916522
ATTGTCACCGAA	942.480151419352	0.0944179129424765
GTTGTCACCGGA	942.48063844945	0.104906340787091
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AGAGTAATTTAC	942.503981748313	0.0619441192636172
AAGCTTGACGCA	942.516023132541	0.13030152422877
ACCAGTCAGTGG	942.52104786648	0.0678962828881555
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ACTCATCCGTCG	942.582530962155	0.0705995687475126
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AAAATGAGCCAG	942.639880991078	0.0384045472891147
GTCGATTA	942.647245686152	0.0984958220543136
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ATTAGTCTGATG	942.655225913116	0.074166114319178
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CCCGAATGACCA	942.674820036144	0.0878250246197712
CATGACACTCAA	942.684682853997	0.0816093174831698
CTAGATATGACC	942.714717415978	0.102918646184808
ACTTACTGGTCA	942.715658701209	0.0749452072301972
ATGACAAGAGTA	942.721564316912	0.0792876840210462
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ACTCACCTGTCA	942.788197386675	0.0554290062893886
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CAGTCAGGGCGA	942.799928185076	0.117815541053593
CACACATGACGA	942.813161264473	0.107098383597459
AGAATGAGTGAG	942.816161192789	0.0604361866152933
AATTGTAATCAT	942.818890563893	0.0611722642149662
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ATTGTCACCGGA	942.839147599673	0.124073813399386
CATCCCATGACA	942.861437702385	0.109254501200094
ACTTTGACGAAT	942.86562254769	0.0928106940695424
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AAGAGTCTTGTC	942.933669172296	0.0518703028328324
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GTCACGAAACCA	942.950065205378	0.124819401018984
CGGTACTTATGA	943.008890382672	0.0547885158515377
AAGCGTTGTCAC	943.025811434972	0.0713888382051865
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ACTCATCACACA	943.11651033789	0.0623166742763654
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TGACCAGTTGCA	943.135875211498	0.0765804039513193
GGATGAGTGCAA	943.192525766302	0.0624742230566858
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ACTCATCCGCAC	943.315586922129	0.102404320024108
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ATAACGACGTCA	943.435725889378	0.0842032565381824
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ATCCCTGTGACG	943.998603471712	0.10601569240007
ATACTCGGTGAT	944.022474528891	0.0551306427523839
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GTCATGTTCTTA	944.072542237697	0.0764802344040271
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GAACTATTACGC	944.134005046806	0.0879703660026523
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ACTCCATGTCAC	944.17258277772	0.0858858036551365
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GCTAGGGTGACA	944.218678064065	0.0587710545096038
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AAGAGTCTTCGT	944.323302956416	0.0635578569673059
GATCTGGAGTCA	944.368758919229	0.0613502747063355
CCTTTTCTGTCA	944.372277326078	0.116014353605149
CAGTCCGCGTCA	944.378431897125	0.0859910004894854
ATGGGGTTCATAG	944.379649556114	0.0528161424701501
ACGCGTCAGCGA	944.388044478759	0.0770179124352573
GTGTACACGTGA	944.39079826331	0.066634606409438
ACATCCCAGTCA	944.3988647366	0.0819127046431986
GACTGATGCCTA	944.411378201733	0.0701119096607317
GACATGACAGAC	944.459981448118	0.11420252657882
CGGTACAGCTCA	944.460020869294	0.106660961502308
TATCTCGTCACA	944.464916792186	0.079276639055145
CGGTCGAGTGAC	944.475003276864	0.125428515722465
GAAAGCGTCAGA	944.477218644969	0.0947242453512036

GATACAGTAATC	944.507872700119	0.0654755441996619
GTCACCTTAGA	944.520660928263	0.0726665853438521
CAGAGTGACATA	944.536594000092	0.0531182334530284
ACAGTCAGTGGC	944.557617293708	0.0664423323452077
AGGGGCAATGAC	944.573802426279	0.0576515880793777
CCCAGGGTGTC	944.575075143024	0.0921561028830471
CACTCACATGAC	944.576163035554	0.0594494933572688
ATGACGGACTCC	944.581277442715	0.0651379974519597
AGAGTGACAACG	944.589270313246	0.0821237557601728
ACTCATTCCGAA	944.594171348494	0.0635226915866141
AGCGTTGTCACC	944.60193442597	0.110719395492035
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AGTCAGATATCA	944.609957368397	0.0725324885232666
AAGACGTCATGA	944.615775146062	0.0611310550474221
ACTGACTGCTAT	944.631635178207	0.0630992745025843
AGTCAACGGACT	944.661309707052	0.0595856697878598
GATCTACTCATC	944.674735020231	0.0624354886962733
ACAATTACTCCT	944.686494732962	0.0760484472224033
CTAATGACCGAA	944.697137456514	0.0731156277340143
ATGCGTAACAGC	944.709135346647	0.0578819768782779
AAGTATGTGACG	944.716045719201	0.0793016047194215
AGTAGAGTGACG	944.723718011991	0.06186943406793
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TCCCCTACGTCA	944.726838148213	0.113398936519038
AGTCAACACTCG	944.767972943911	0.0788699692984241
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GACCTCATGACA	945.159164789718	0.107402587705073
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AGATTGACAAAT	945.399156687951	0.0672041410083815
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GTCACCATCCAC	945.628006390727	0.114175407263151
AGGAATGGTGAC	945.647278658319	0.0587912341680355
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AGTTGGGTGACA	945.711071784209	0.0746248601616445
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CAGAATTCGGTC	945.802477833361	0.120396429967881
GTCACGCAAAGA	945.805337884649	0.0496901795270098
ATAGCCATGACA	945.83383756111	0.0828785878026065
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ACTCATACGTCT	946.750616632252	0.0679623192976461
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TAACGTCACCCA	947.351805483246	0.0644317529620308
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ACTCATCATCCA	947.934598184018	0.065051322303069
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GCCCCTGACGCA	948.364672295551	0.085043485965725
ATTCCGGTACCG	948.386966503786	0.0793511587933746
AGGTTAACTCAT	948.395073697685	0.0597302880232452
AGTGAGCAAAGAG	948.410523832367	0.0808301898457757
CTAATATGGTCA	948.420364107785	0.0758644847591075
CTGACTACTTGC	948.433902708165	0.0945487764498051
GTTGGCGTGTC	948.44654648423	0.0720917642267796
CCCTGACTACTA	948.451818567663	0.0683586973542331
ATAACGGGTCAT	948.455993123147	0.106180511672388
GAGTCAAGATAC	948.464775940001	0.080936150061877
AGACTCGGTCAT	948.510291177603	0.0645379736680902
TGACAACTGACA	948.541973037825	0.0633944391468575
AAGTCACTTGCA	948.589725615715	0.0643861129126757
ATGACCCGTCTG	948.593907623132	0.0912135336018279
AGTGAGTTGTCA	948.601296765978	0.0583853432383418
AGGGTGACGATG	948.607672122941	0.0752390242380313
ATCTCATGACAG	948.628749194637	0.0694298132376967
GATGACCTGGTA	948.639468938197	0.0731972416571265
ATCGGTGACATG	948.647920568463	0.0678183600948463
CTGACTGCTCAC	948.652695781504	0.0739213618630781
ATGACCTGGCGC	948.681841693127	0.0817253749054352
ACTGACTACTTC	948.696314784535	0.0794022130854705
ACGGACTGGTCA	948.702279476768	0.0832869473200781
CCGTCATTA AAC	948.704056750126	0.0842609287640998
ACTGACGGATAC	948.717470087861	0.0742040438080875
GTCATGCTTAAC	948.732654789888	0.0516702985689309
CGTCACAGTAAA	948.738913330422	0.0956083532489919
AAGTCAGACTAT	948.744595384914	0.0573982876710745
GAGGGGAGTCAA	948.751003110549	0.0521033797995437

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GCTTGGTGACCA	948.839936566202	0.0615880067625698
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CATTCGACTCAG	948.850776152287	0.0555010193936525
TAGTCAATGTCA	948.856952596614	0.0874809098759289
ATGAGTGAGTGG	948.861649284399	0.0649018755793584
AATGTCATGTAA	948.865365985748	0.0875626097051289
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TAGCAGTCAGCA	948.971415519715	0.065330044197683
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CACTTAAATGAG	948.999465921109	0.0739702291574263
CTGACGAAATCC	949.032902584006	0.0508390160053415
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CAGTGTCACGTA	949.091624657314	0.0734696800476492
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GTTAGGTGACCA	949.175466327303	0.0603795036691001
CCAATCTTATGA	949.178452725684	0.068615385210713
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GTCATGCCAAAC	949.201300878603	0.0793914463918317
CTGACTTAATTC	949.20896008449	0.0962006646111794
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GATGACAAGAGC	949.215179007051	0.0489041023447532
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AATAATGACGGT	949.23089217103	0.0688853435822175
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AGACCATGACCA	949.244050734732	0.0591205591530153
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AAGGTAGTGACA	949.345781343236	0.0919902881286167
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GTCACCAAGCTA	949.761552984676	0.104425910677233
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CCCGTAGTGACA	949.78752513088	0.0744011164387429
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GTCGATCTGACA	949.95969030163	0.0757636403571869
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ATGAGTGAGTTG	950.030483563241	0.100842502288384
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CTGCCACGTAAC	950.072577754874	0.0706599339176826
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CTCAACTGGTCA	950.114855701048	0.0614589634487256
ACTCATAACCCG	950.124686667105	0.0515666600006702
GACTCAATCTCA	950.130162831754	0.0537944169063372
AGTCACGGGGAG	950.136740653369	0.0600216697695859

GTCACCTTAATA	950.148246071212	0.0761546525792211
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CATGAGTCCCTC	950.181656357542	0.0699760909415404
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CTATGACCGCAC	950.253461227496	0.0509674779244842
TCATAGTATAGA	950.302188460115	0.0910234258230615
ATAGGCCAGTCA	950.313928871999	0.06250899780781
AGTCTTGTCAAC	950.33973768793	0.0691063066585164
CATAGACGTGTC	950.349546198265	0.0639693563407832
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AAAAGATGTAC	950.383118508544	0.0714059068957178
CTCTTACATGAC	950.401915841996	0.0560952600661397
CAGAGTCAATAA	950.422108452334	0.0865864918029067
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ACTCGTCAGATG	950.470177034994	0.0507241252376892
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ATGAGTAGGAAA	950.504806408337	0.0790491849774537
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AGTTAATGATTC	950.521444507662	0.0876858821200948
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ATGACCATCAAT	950.559814571955	0.0961128140881729
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GCTGACGCTTAC	950.893507149171	0.0716538043564185
GTC AATGATACA	950.978358878011	0.0500144564776368
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CTTTGACACAAC	951.297905445466	0.102046858665073
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ACTCATCCACAC	951.51764896514	0.0819838248433709
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GTCACAGCTCAA	952.218447567826	0.0772562761313789
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ATTAGAAGTGAC	953.002188415934	0.0953275907695881
ATCGATGTGTAA	953.010302718444	0.0752226830231861
AACTGAGCAATT	953.021495165422	0.0718390864610228
AGTTGACGTATA	953.029399148832	0.0625205506834545
ACGTAATACCTC	953.035440448218	0.078513113977056
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ATCCCTGATTCA	953.066998163603	0.0926662425140938
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CAGTCCTTGTC	953.380299872645	0.0625686634506934
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TACTCATCTCAA	958.243178955159	0.0516042003474063
GAGGACAAGTCA	958.245245651539	0.0755213130392194
CGAGTAATCATC	958.272411557779	0.0408150163098618
GTCACTAGATCA	958.277294220245	0.0258469983898785
AATGTATTACAC	958.301042769823	0.0586626480541183
GTCACAGACCAC	958.331097082465	0.0488204133804271
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AGTGGTGTGAGA	958.451184446719	0.0402775932410636
CCATATAGTCA	958.481600436736	0.0904882216679332
AGCGAGATGACA	958.506378144289	0.0879099613180538
TAGAATGTCATA	958.509553710993	0.0452154067859753
AGTTAGGTGACA	958.549915391711	0.0630294170188019
CTAGCCATGACA	958.577176728632	0.0522820566048967
ACTCACCTAGGG	958.580688711775	0.0533958403741974
CGTCATGAACAC	958.633455780613	0.0944633864628921
GTCACGTGCTTA	958.637674903474	0.0704422002683061
ACTCATCAACAC	958.652457860833	0.0520217682972594
CATATCCGTGAC	958.657200893195	0.0599842226439102
AGAGCTCATGAC	958.725545881886	0.0432068697336455
ATGACAACCGAA	958.731824746672	0.0840251282244767
AGCGTTCGTGAC	958.761970089556	0.0795579696799828
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ACAGTCAACGTC	958.785493097984	0.0573136980704333
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GGGAGAGAGTCA	958.837344740385	0.0861578155117459
CAGGTTCGTGAC	958.860769635613	0.049446528314782
GGGTAATGACAA	958.909880017135	0.0559661829125013
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ACTCATCCGAGA	958.944623586014	0.0497621521599891
ACTCATAGGTAG	958.948366493407	0.0794014279669105
GTCTCCTAGTCA	959.007253746825	0.0815450648557232
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CCTGACTGGTAA	959.081329026074	0.0638374916379841
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AGATGAGTAGTG	959.14667426422	0.0643560650400734
GTGACAAACAAC	959.199834834901	0.0706652078689416
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AATTACTCGACT	965.729521870556	0.0357276644993482
CCGACTCACGAA	965.74708569594	0.0416670674322297
AATGACAGGGAA	965.762424290991	0.0457602868995757
TCAGACCCGTCA	965.791462465355	0.0467408371949508
GGACTCACTCCA	965.791729682006	0.0558045337845847
ACCCCGGTGAGT	965.837162396432	0.0548436526415775
GGTCATAGCCTA	965.887891179827	0.0551786379408424
AGCCCCTAGTCA	965.908213723657	0.0517273174820916
AACGTCACTTAC	965.958926626776	0.050054261158551
CCTGAGTGACCA	965.980469800014	0.0253885400410745
GTCACGCTCTAA	965.986409905038	0.0531404145531299
ATGTCACATTCG	966.022041397546	0.0697933056229866
AGCCGTGTGACG	966.031100107265	0.0488825247280384
ATATGCGTGACG	966.05424242934	0.0637565984798602
ACGTCAGAAAAC	966.0571213481	0.0473606679199892
GCATGGTGACGA	966.068862756876	0.0490041746785627
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CTATCCGTCAGA	966.156893799299	0.0367255758667712
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GTAAGACTGACA	966.203615713611	0.0528432831380101
AGCAGCAGTGAC	966.209287827214	0.038843016176518
CTAGGTGAGCCA	966.215824206279	0.0452229981327864
GACAGGTCACTA	966.218840291566	0.0518900218295505
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GACTGACTACGA	966.259842255578	0.0491007613913558
CTGACACTATAA	966.268846728411	0.0408932642840991
GTGACAGTGCAA	966.275527425096	0.0641805476992676
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GTTGTCACGCAA	966.283536874096	0.0547399395500331
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CGGTGATACGTC	966.288020488018	0.0766781655570895
ATTCTGACGCTA	966.308607197527	0.0559481691875637
ATCTATGATGCA	966.346510382098	0.0380400667416764
ATAAGTCAACGA	966.374599605354	0.0530866320510694
AAGTCACTCTTC	966.411896776827	0.0411214317219976
AAGTGGCGTCAC	966.460854859998	0.0446383431355179
CCGTGACGGAGA	966.507229779178	0.0498835720887494
GGATAAGTCAAC	966.513788724325	0.0314980492429879
GTCATGATTAGA	966.52054414512	0.0404563289117891
CATCTTGACACA	966.526275767724	0.0405678696254434
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ACTCATCTTGGG	968.234217664654	0.0615973517178824
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CGTGACAGTCAA	968.534174405265	0.0390706157146238
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ACTCACACTTTG	974.609122454006	0.0327061448402697
ATGTCACTAATC	974.68322425659	0.0360811065420828
CATCTACGTCAG	974.704514469006	0.0483577924610343
AGGAAGTGACAC	974.768953800746	0.0442327699921748
ACTATGTCACGG	974.778689851533	0.0339278560309468
CGAGTAATAGTA	974.813799331031	0.0503008237371413
AGTGTGACAGGC	974.815607507809	0.0570254696273644
CAGGCCAGTGAC	974.818676288149	0.0287427497750834
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AGATGAGTAGAT	974.84526662517	0.0348880524219856

CCTCACAGTCAG	974.868443421787	0.0279947530398376
ATGACATCTAGG	974.985351551769	0.0288091526694171
ACCACCTTATGA	975.052825366322	0.0537447544819472
TAGGGACTCACA	975.053154525261	0.0345524544446917
GAGACTGTGACA	975.119956893897	0.0558295927587837
TACCAACTCATA	975.128601974602	0.0249695172025578
ACCAGCCATGAC	975.156925702691	0.030529742678941
ATGAGTTGGTAC	975.172999438099	0.0259280128252748
ATGAGTCCCGCA	975.176660005449	0.0337204792048822
AAGACACATTTT	975.183780545141	0.0383045399228884
TGAGAGGTGACA	975.319529445217	0.0357984063279082
GTCACGAAAAGA	975.53523357322	0.0385885138957581
CCTCCATGACGC	975.563259532181	0.0368413080143718
GAATAATGTGAC	975.573648877726	0.0468081923023491
GACCTTGACACA	975.584206233426	0.0289563799839935
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GTCACGTTGGGA	975.693763073493	0.0417517032401188
CTTGGTGCTGAC	975.731442633117	0.0518051633745996
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AGTCAGAGGGGC	975.890595897383	0.0457850256348006
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TACAATCGGTCA	976.195978809294	0.0285694605200888
GTGATTAATAAC	976.362369699741	0.0276478612976358
AGTCAGATCGTG	976.376311005216	0.0476490915553391
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CTTAATGTCATC	976.579021101431	0.0239310890287956
CTGACTAGGCAG	976.62794807808	0.0273060663964361
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GTCATGTTGGGA	977.185054917472	0.024212255263446
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TAGTGACATAGA	994.611741498941	0.00697444803821539
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Q0250	0 79101.7540067826	
Q0275	0 82106.182357552	
Q0297	4.89771848678489e-05	284196.652024118
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YAL002W	7.08542286020908e-05	198959.016999654
YAL003W	4.17310205413912e-06	127019.408968453
YAL005C	4.17310205413912e-06	127019.408968453
YAL007C	5.38940412164735e-06	75741.1626619846
YAL008W	1.22142095154709e-05	208300.256563548
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YAL011W	0 0	
YAL012W	5.08735902016166e-06	24418.0145479279
YAL013W	0 32986.7315538222	
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YAL016C-B	0 13119.8571187186	
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YAL017W	0.000167980193552131	610263.210270851
YAL018C	0.000191518013460734	684109.632729191
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YAL021C	0 23823.0901065114	
YAL022C	0 28825.9048972689	
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YNL101W	1.60465351258798e-05	548915.951148179
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YNL253W	1.15962478500764e-05	222029.994607549	
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YNL323W	0	75365.830636557

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YOL017W	1.1486843935038e-05		150397.044291901
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YPR199C	6.01151260248844e-06	69698.2361956298
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YPR201W	0	25719.6009625078
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Fig. S1

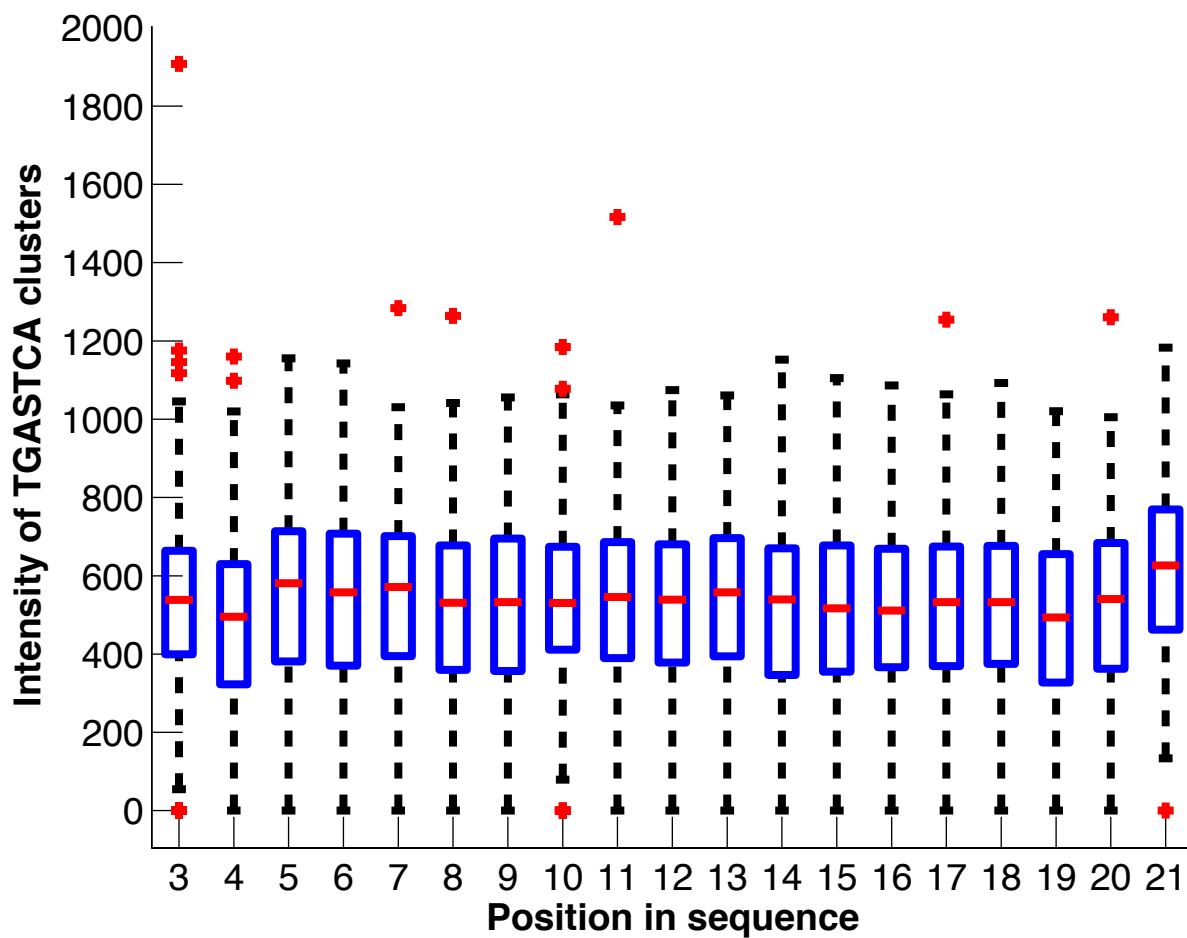


Fig. S2

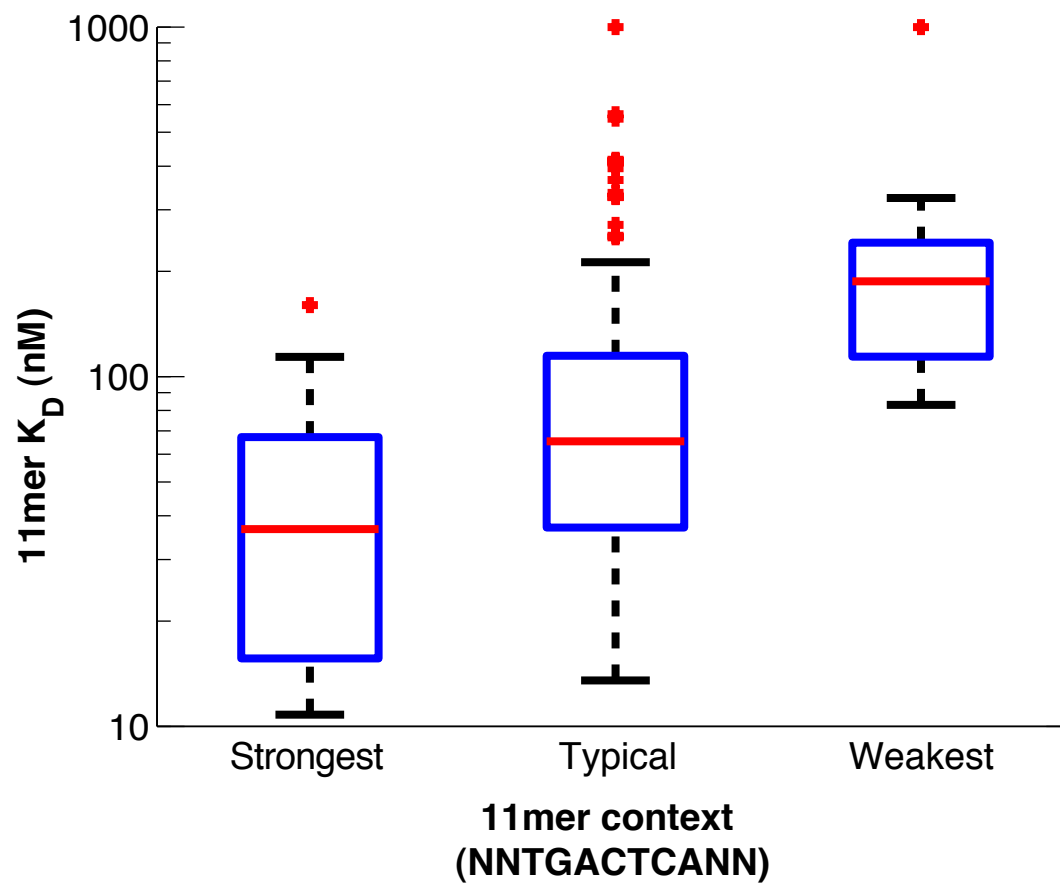


Fig. S3

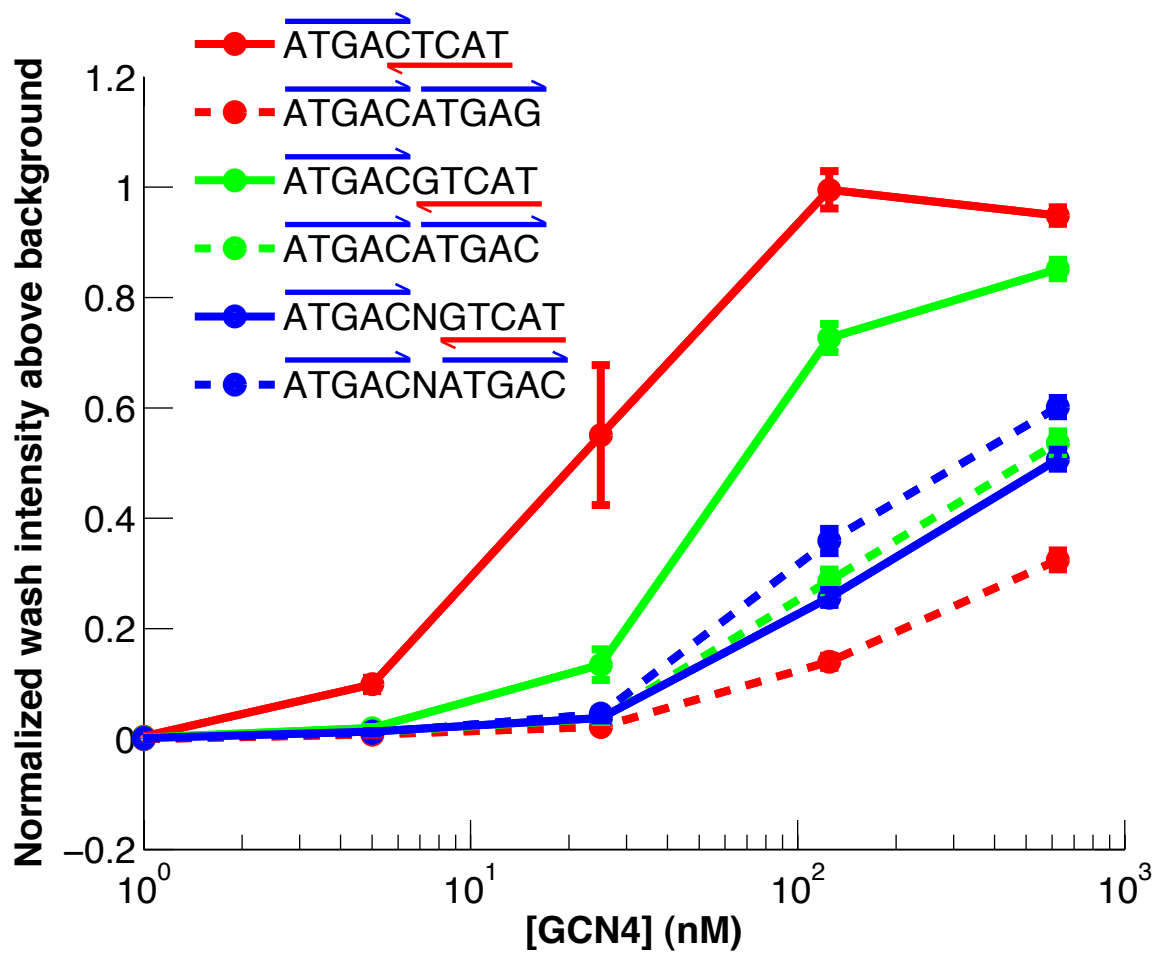


Fig. S4

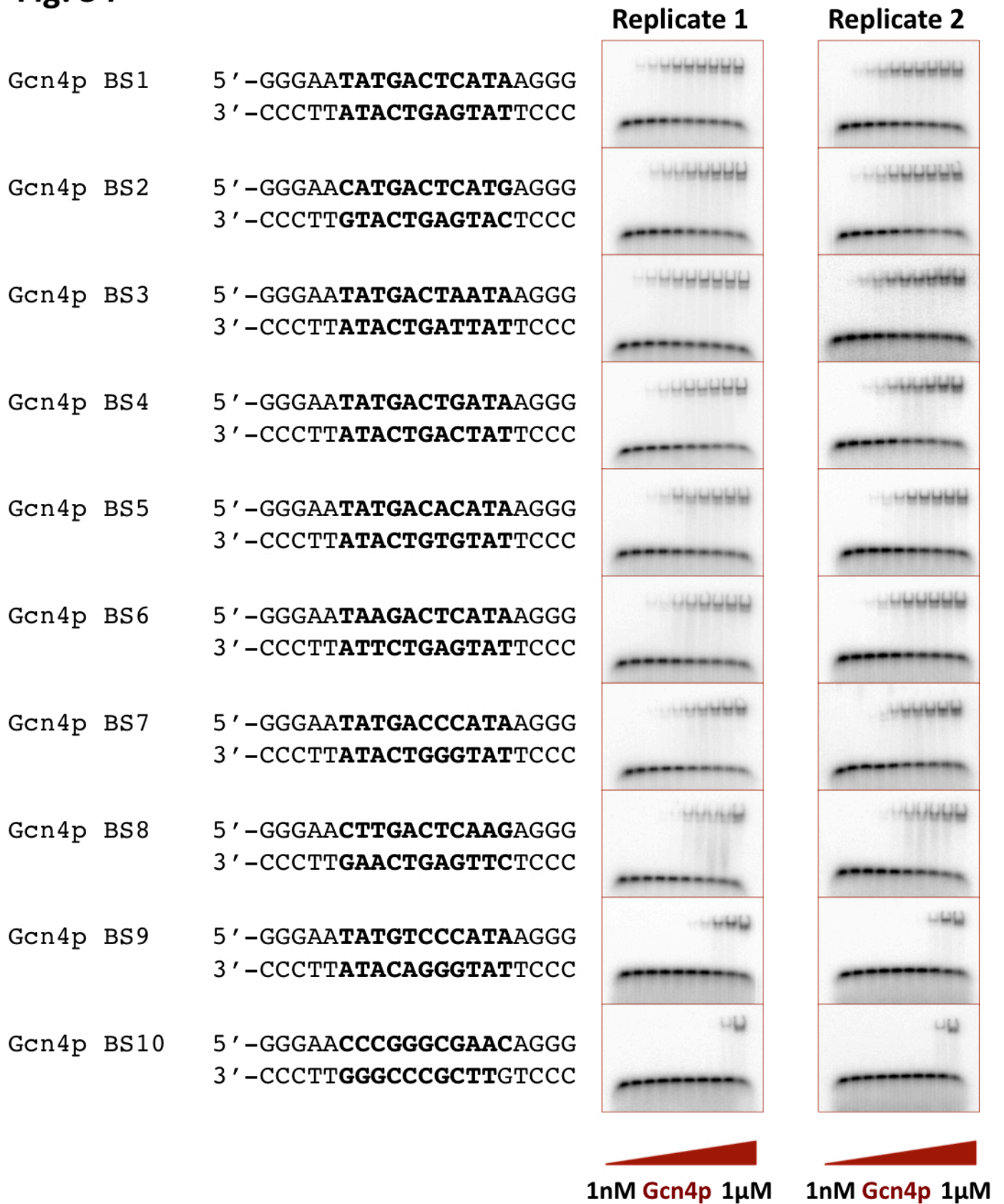
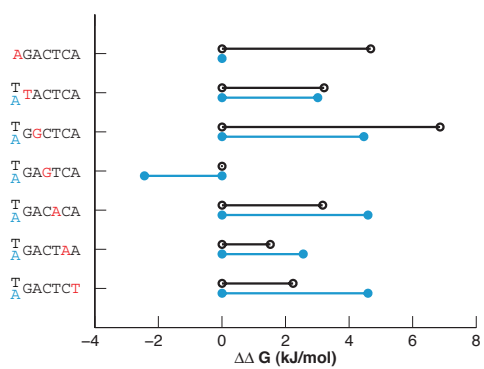
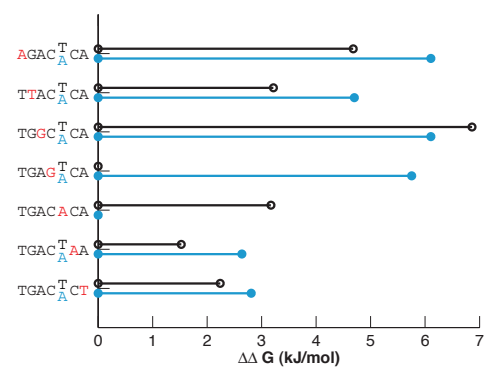


Fig. S5

A



B



C

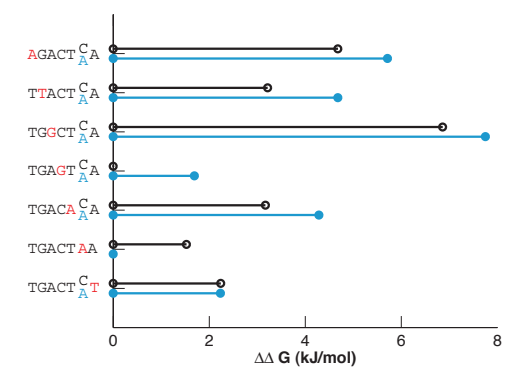


Fig. S6

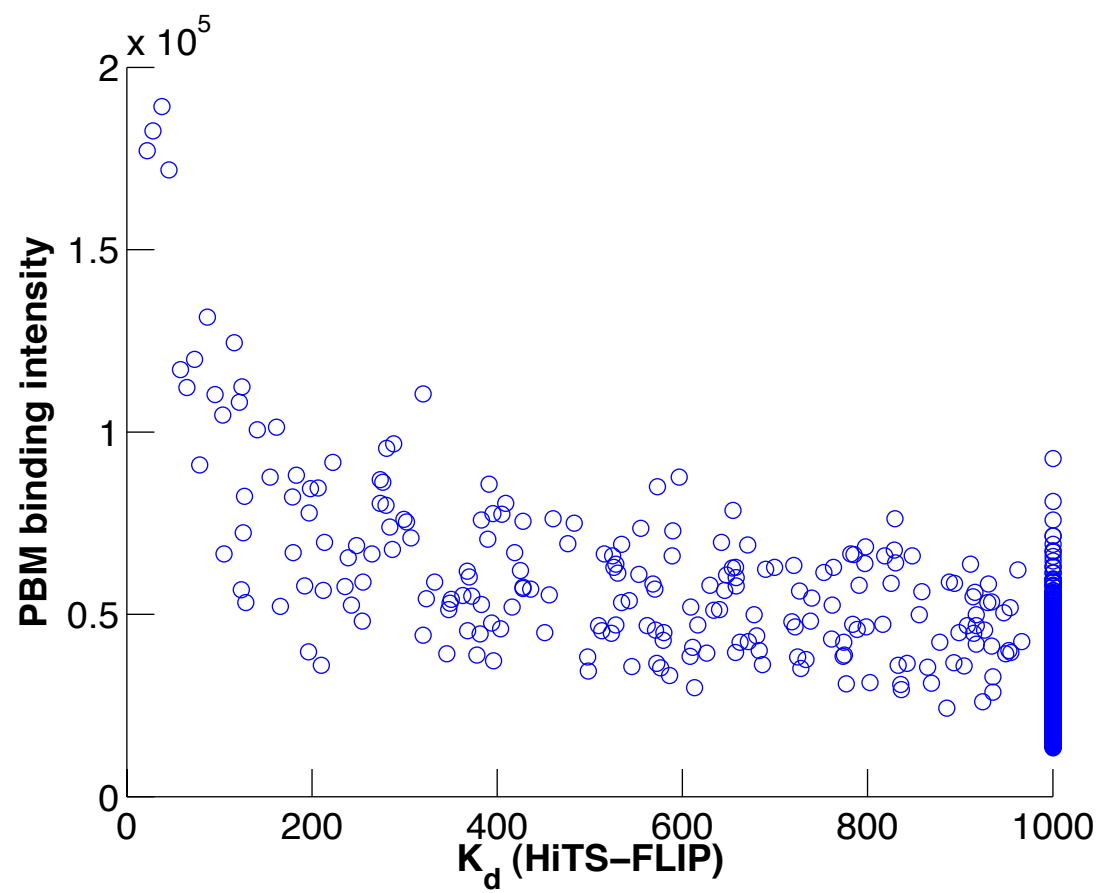


Fig. S7

A

Gcn4p consensus: TGACTCA

...TTACTAATGACTTTT...

$K_d = 210\text{nM}$

Promoter percentile

HiTS-FLIP	78
PBM	31
PWM	14



B

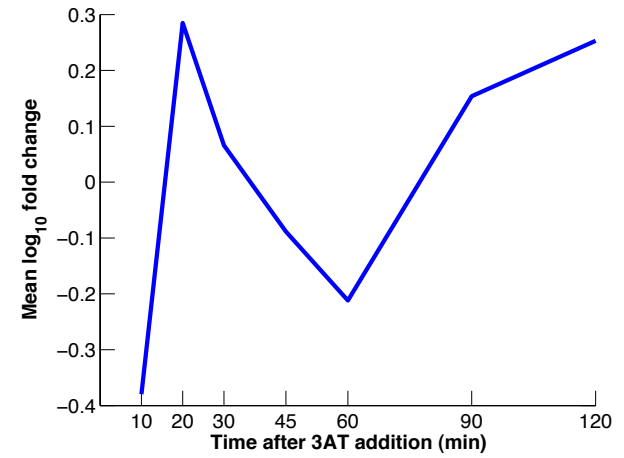
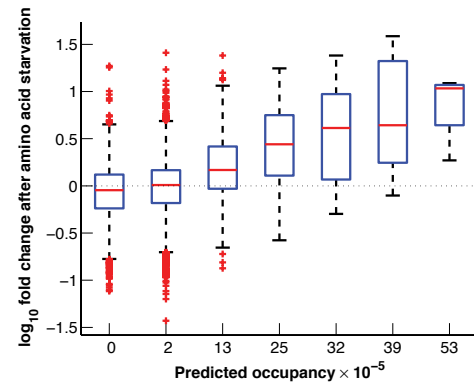


Fig. S8

A



B

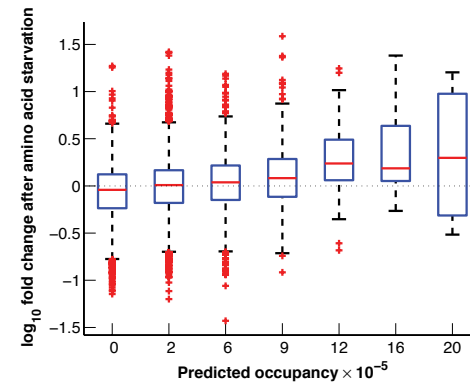


Fig. S9

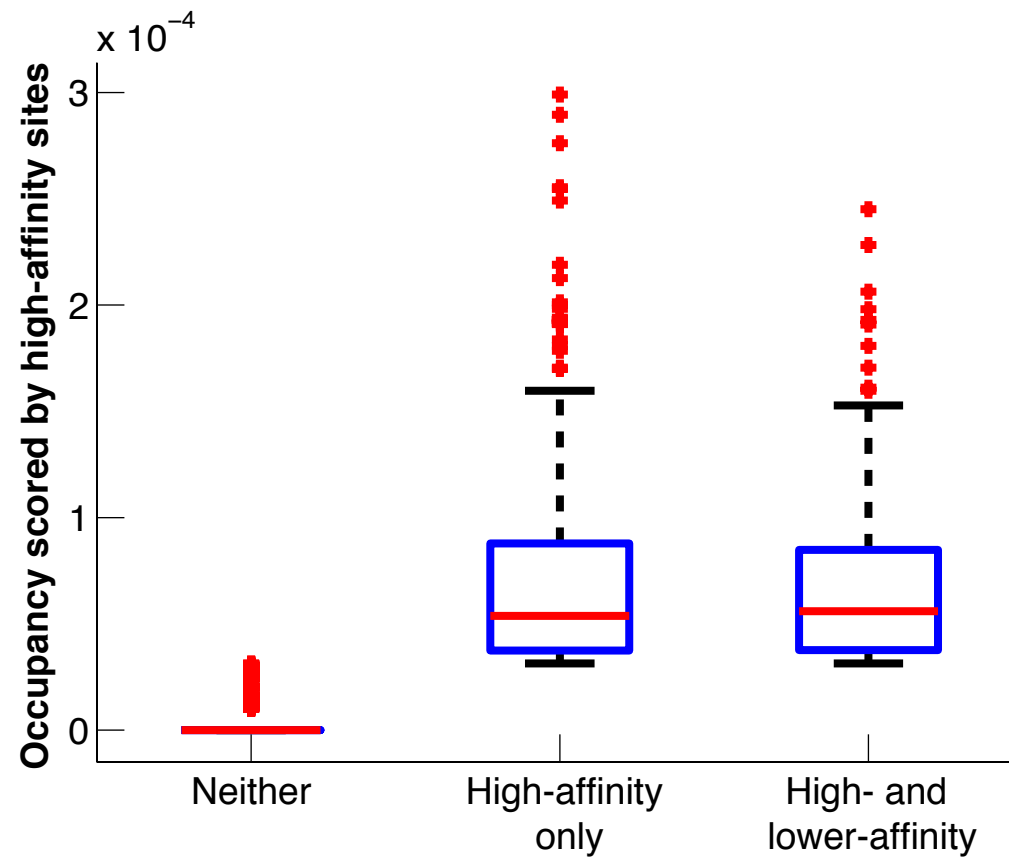


Fig. S10

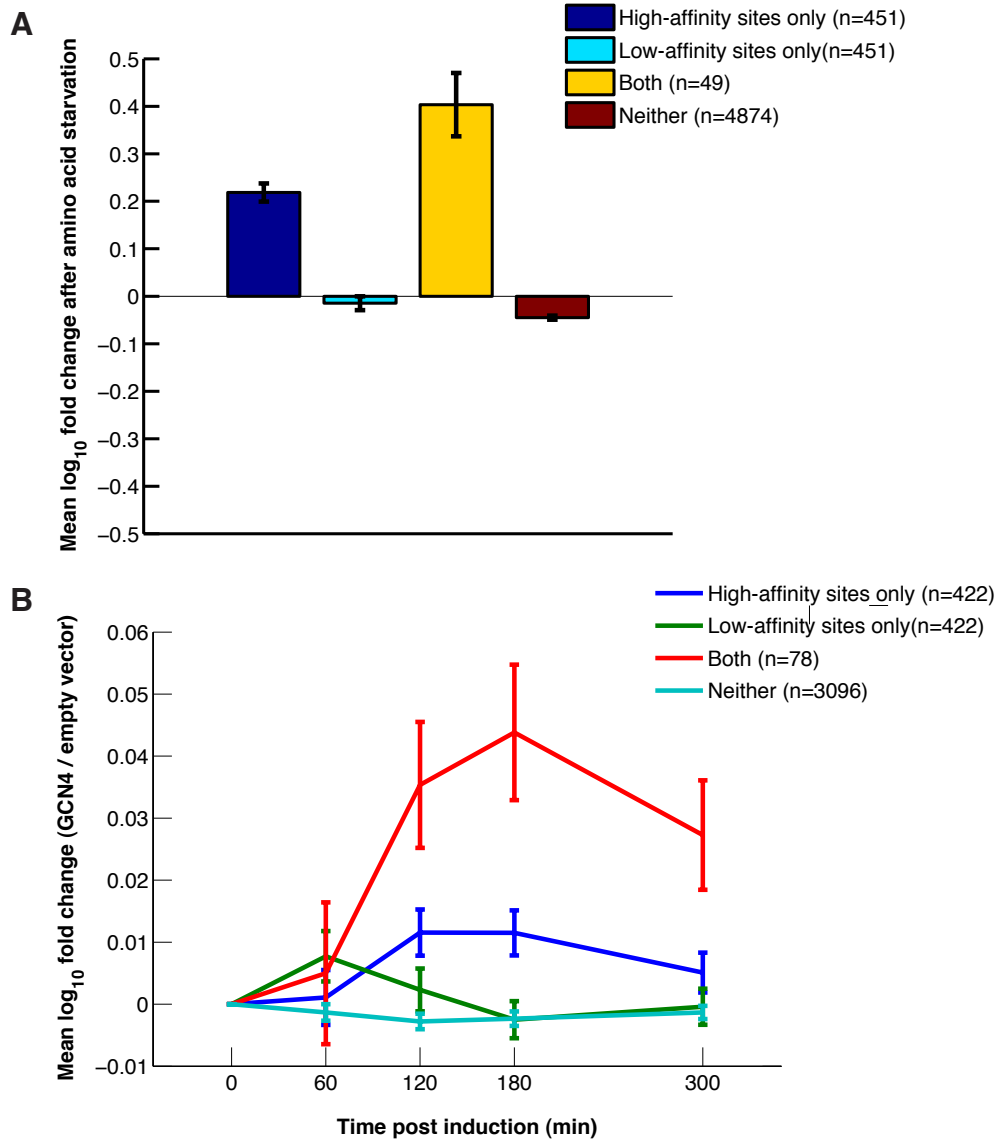


Fig. S11

