

Supplemental Table 3. Forward engineered sequencing results.

UTR name	UTR sequence	Prediction Step	Library Type	1.5mM Log2 growth	3mM Log2 growth	5mM Log2 growth
YAL010C:41:0_1	ATACGTTAGGAAAAAGACACGAACAGAGAAGACCGATCTTG	Start	native	-3.02996	-3.89035	-3.83926
YAL010C:41:0_8	ATACGTTAGGAAAAAGACAAGAACTAAGAAGAACTATCAAG	Mid	native	0.27387	0.32107	0.18545
YAL010C:41:0_15	ACAAATTACTACAAAGACAAGAACTAAGAAGAACTATAAAG	End	native	1.05838	0.86846	0.80111
YBR026C:21:0_1	AATTACATTTGATATAACAAG	Start	native	-0.48100	-0.67838	-0.80392
YBR026C:21:0_7	ATATACAGATTATATAACAAG	Mid	native	-0.00388	-0.04351	-0.29821
YBR026C:21:0_13	TTACAAAGACTATATATAAAG	End	native	0.20576	0.03494	-0.08465
YBR046C:31:0_1	AAGAGACGAGATCGCTAACAAACAGACAAAA	Start	native	0.12034	-0.12241	-0.16506
YBR046C:31:0_5	AAGAGACAAGATCGCTACAAACAAGACAAGA	Mid	native	0.49183	0.62723	0.56936
YBR046C:31:0_9	AAGAAACAAGATTACTACAAGCAAGACAAGA	End	native	0.69555	0.48313	0.59335
YBR055C:24:0_1	AACAGCAAGAAAAACGTCACATTTT	Start	native	-1.08548	-1.43644	-1.87468
YBR055C:24:0_5	AACAGCAAGAAAAAGTTATATATT	Mid	native	0.30312	0.29848	-0.04963
YBR055C:24:0_9	TACATCAAGAAAAAATATATATT	End	native	0.69204	1.35762	0.98415
YBR080C:26:0_1	GTATATTACAGCCTTTATAAATTGAGT	Start	native	-0.53773	-0.88236	-1.13106
YBR080C:26:0_7	ATATATACAACTATATAAATTAAGT	Mid	native	-1.49971	-1.55995	-2.38522
YBR080C:26:0_13	TTACATACAACTATATATAACAAGA	End	native	-0.01709	-0.23367	-0.32161
YBR097W:31:0_1	AAGGTTATCAAAAAGGAAGGCATACAGTATA	Start	native	-1.09627	-1.19254	-1.65027
YBR097W:31:0_8	AATGTTATCAAAAGCAAGATATACACTATG	Mid	native	0.02072	-0.04662	-0.08669
YBR097W:31:0_15	AATGTTACATCCAAGCAAGATTACACTAAG	End	native	0.31814	0.13245	0.16634
YBR107C:21:0_1	AACGTACTTCTTTGGATGGA	Start	native	-2.95008	-2.81330	-3.70887
YBR107C:21:0_8	AAACTACTTACTATATATAGA	Mid	native	-0.55955	-0.95799	-1.20401
YBR107C:21:0_14	AAACTATATAAACTATATACA	End	native	-0.50590	-0.69852	-0.80722
YBR221C:50:0_1	TCGATCGCAGTTTAGTAAAGTCTTTTACTTTTGCAATAATTTTGTTCAAC	Start	native	-1.04634	-1.56012	-1.34316
YBR221C:50:0_15	TCCATCGCAGTTTACTAAGATATACTATTTATACAAGAATTATATACAAG	Mid	native	-0.81292	-1.22304	-1.41263
YBR221C:50:0_29	TACTACAAGACTACAAAGACAACTATATATAATAATTACATACAAG	End	native	-0.68916	-1.44091	-1.97577
YBR253W:50:0_1	ATAACAGATTGTGATGATAGGCATCCTGTACTCTTTTTTTTACAAGAAA	Start	native	-2.55956	-3.34544	-3.88955
YBR253W:50:0_16	ACTACAACTATTAAGATAAGCATACTATACTACTTATATACAAGAAG	Mid	native	0.18416	-0.43361	-0.42901
YBR253W:50:0_30	ACTACAACTATATATACAAGATTACTAACTATATAATTATACAAGAAG	End	native	-1.92664	-2.68073	-4.02135
YBR260C:37:0_1	AATCTCGGAAGATTAAGAGAGAAGTGATATAGACAAG	Start	native	0.20491	0.30587	0.17184
YBR260C:37:0_11	AATAAAGCAAGACTACAAAACAAGTTATACAGACAAG	Mid	native	0.42182	0.34558	0.63631
YBR260C:37:0_20	TACAAAACAAGACTACAAATCAAGCTACAAAGACAAG	End	native	0.61386	0.51020	0.30766
YBR297W:39:0_1	ATCGAAGCAGAGCATCTTGAAGATATTTATGTTCTAAAT	Start	native	-0.82986	-1.09455	-1.30277
YBR297W:39:0_12	ATTAAACAAGACAATCTACAAGATATATATACTATAAAT	Mid	native	-0.13205	-0.36741	-0.77069
YBR297W:39:0_22	AATAAACAGACTACATACAAGATATATACTACTAAG	End	native	-0.08860	-0.24330	-0.39534
YCL047C:20:0_1	ACGTGCACTAGCAGACTAAT	Start	native	-0.78755	-1.01358	-1.08119
YCL047C:20:0_6	ACGTACACAACAAGACTAAG	Mid	native	0.33505	0.29074	0.54389
YCL047C:20:0_10	ACGTATATAACAAGACTACT	End	native	-0.24874	-0.36764	-0.30413
YCR057C:50:0_1	GTTTTCAACAGGTAGACAGGAGAGCAGACCGCAGATTGAACCGCATCCCA	Start	native	-2.36763	-2.58709	-3.30534
YCR057C:50:0_9	GTCATCAACAAGTAGACAAGAAACAAGACCGCAGATTGAACCGCATCGCA	Mid	native	0.72145	1.44480	1.15020
YCR057C:50:0_17	GTCATCAACAAGTAAATCAAGAAACAAGACAAGATTGAACCGGATTAGCA	End	native	0.67300	0.49009	0.07012
YCR077C:33:0_1	AACCGGAAGTAAGAGCAGCAAGAAGCACTAGCA	Start	native	-0.15328	-0.29466	-0.35019
YCR077C:33:0_11	ATGAGAAAGCAAGACAAGCAAGAAGCACAAGAA	Mid	native	0.50990	0.45700	0.76136
YCR077C:33:0_20	ATGATAAAACAAGACAAGAAGTACAGACAAGAA	End	native	0.22564	0.06667	0.02851
YCR106W:30:0_1	GAACATGAAATGGCTGCTGAAATGCTCTG	Start	native	-3.62304	-3.84608	-4.09777
YCR106W:30:0_9	AAACAAGACATTTGCTACTTAAATACTATG	Mid	native	0.57426	2.07786	1.93363
YCR106W:30:0_16	AAACAAGACAGCTACTATTTAACTACAAAG	End	native	0.51772	0.61567	0.62609
YDR499W:39:0_1	AACACAATCATCAAACCTTTTGCATATTTCTATTATAG	Start	native	-1.13621	-0.91437	-1.55952
YDR499W:39:0_9	TACACAAGAATCAAACCTTTTACATATATATATTAAG	Mid	native	0.22259	-0.20714	-0.57111
YDR499W:39:0_17	TACACAAGAATCAAACCTATATAAACTATTTATATACAAG	End	native	-1.12549	-1.63126	-1.12741
YER087W:50:0_1	CACTAATTGACCAACGCCCTTTTTTGAAGATTGACTTCTTCCACATAGCC	Start	native	-2.94722	-3.88927	-4.05794
YER087W:50:0_20	TACTTATTTAAACAAGAACTACTTATCAAGATATACTTTTACTACAAAGAC	Mid	native	0.68343	0.37063	0.05119
YER087W:50:0_39	TATATAAACTATATAAACTACTTATAAAGTCTACAACACTACTACAAAGAT	End	native	-1.11556	-1.43969	-1.72554
YER168C:26:0_1	GTGGGTTATAAGGGCTTTTTTTGTGT	Start	native	-3.36580	-3.37445	-3.94884
YER168C:26:0_11	GTTAGTTACAAGATATATATTTAAGT	Mid	native	-0.03923	-0.24352	-0.45587
YER168C:26:0_21	ACTACATACAACTATATATAACAAGA	End	native	0.40221	1.24723	0.69012
YFL038C:24:0_1	AAATAAAACAAGAAAAGCACTAAT	Start	native	0.43453	0.36525	0.29911
YFL038C:24:0_5	AATTAACAAAGACAAGAACTAAG	Mid	native	0.47442	0.38485	0.40218
YFL038C:24:0_9	AATTTATACAAGACAAGAATCAAG	End	native	0.30601	0.31538	0.29157
YFL039C:50:0_1	CACGCTTACTGCTTTTTTCTCCCAAGATCGAAAATTTACTGAATTAACA	Start	native	0.32486	0.33105	0.10245
YFL039C:50:0_9	CAAGATTACTACTATTTACTTACCAAGATCGAAAATTTACTAAATTAAGA	Mid	native	0.06623	0.11379	0.01195
YFL039C:50:0_16	CAAGATTACTACTATTTACTTATCAAGAAAACTATTTACTAAACTAAGA	End	native	0.35695	0.09802	0.11922
YFL041W-A:50:0_1	ATGTGTCAAGAACGTTGGAACAGTTAAGTAGTTGATATCCACCCCTCGA	Start	native	-3.38145	-3.68675	-3.93939
YFL041W-A:50:0_15	AGGTGTCAAGACGATTGAACAGTTAAGAGATTATATAATTAACCTCAAGA	Mid	native	0.05722	-0.16909	-0.19559
YFL041W-A:50:0_29	AAGAATCAAGATAAACTATACAGTCAAGAAGATATATAAATAATTCAAGA	End	native	0.12496	-0.10024	-0.20449
YGL085W:44:0_1	AGCCCAAGTTTTTCATAGCTATTAAGGGGGGCATAAATGCACCTTAT	Start	native	-4.21195	-4.42008	-5.07356
YGL085W:44:0_13	AGCCCAAGTTTTTCATAACTATTAAGATTACATACAAGAACTAAG	Mid	native	0.07081	-0.07103	-0.09757
YGL085W:44:0_24	AGACAAGAACTACAAAACACAAAGATTATATAACAAGAATCAAG	End	native	0.09135	0.02161	0.13754

YGL124C:30:0_1	ACACAAACGTAGAATCAGTACATCGGAAT	Start	native	-1.26446	-1.30041	-1.94499
YGL124C:30:0_13	CTACAAACGTACTATTACTACACAAGAGAT	Mid	native	0.32497	0.31595	0.16457
YGL124C:30:0_25	AAACAAGACTACTACTACTATACAAGCAAG	End	native	0.37342	0.38140	0.28902
YGL224C:50:0_1	AATTTTCGGAATACATGAGTAAGCTCTTGGACCGAATCATTACTAGGCTTC	Start	native	-3.29392	-3.99548	-4.72828
YGL224C:50:0_15	AATTACAAAAATACAAGAGTAAGATCTACTACTGAATCATTACAAGACAAG	Mid	native	0.36746	0.06708	0.02972
YGL224C:50:0_29	AGATATAAACTACAAGTACAAGATTTACTACTAACTACTACAAGACAAG	End	native	0.51543	0.29462	0.18455
YGL225W:41:0_1	AAGAAAAACAACACTAACCACACAGTATCTTTGCCCCGA	Start	native	-1.60846	-2.27403	-1.16319
YGL225W:41:0_12	AAGAAAAACAAGCAAACTATATACAAAGTATATATACACAAGA	Mid	native	0.38434	0.35909	0.28110
YGL225W:41:0_22	AACTATACAAGAAACTATATAAAAACTATATAAATCAAGA	End	native	-2.14209	-2.76879	-3.77779
YGR005C:33:0_1	ATTAAGAGTAAATAGAAGACCAACTTAACACC	Start	native	-2.31669	-2.76306	-2.94738
YGR005C:33:0_9	ACTAAGACTAAAATACAAGACTAACTATACAAG	Mid	native	0.22508	0.22834	0.31093
YGR005C:33:0_17	ACTAAGACTACAAAGCAAGATTTACTATACAAG	End	native	0.52756	0.40149	0.31248
YGR089W:50:0_1	TTAAGATTCCACCTATCTCCGTTACATAAAAGGATCCATGCACAATTTTC	Start	native	-3.67735	-3.70137	-4.76508
YGR089W:50:0_14	TTACGATTCTACCTATATAAAATTATATACAAAGATACAAGAACAATGTTTC	Mid	native	0.31610	-0.15368	-0.87908
YGR089W:50:0_27	GTACAAAGCAAACCTATATAAACTATATACAAATATACAAGAATCAAGATT	End	native	-2.48337	-3.08969	-4.45303
YGR169C:26:0_1	AGTGGGCAAAAGGATGATTGTCAAGT	Start	native	-3.34763	-3.37266	-4.04208
YGR169C:26:0_11	AGCAAGAAAAATCAAGACTATCAAGA	Mid	native	0.11707	0.00138	-0.04014
YGR169C:26:0_20	TACAAGACAAGCAAAAGCAAGCAAGA	End	native	0.54644	0.63837	0.71119
YGR210C:44:0_1	GTAGTATAAGCTGTCTGTGAAGAATAAAACGGAAATAGAGCCAGT	Start	native	-2.43504	-2.99017	-2.99435
YGR210C:44:0_11	TTAGTATAAGCTAACTACAAGAATAAAACGTATATAAGCAAGA	Mid	native	0.21055	0.30329	0.02404
YGR210C:44:0_21	TATATATAAGATAACTACAACCTATATAAACTATATAAATCAAGA	End	native	-2.63536	-3.34078	-3.59007
YGR234W:20:0_1	ACACAAAGACTTTATTTCATT	Start	native	0.10612	-0.01450	-0.15593
YGR234W:20:0_5	ATACAAAGACTATATATATT	Mid	native	0.32407	0.19753	0.05265
YGR234W:20:0_8	TTACAAAGACTATATAAACT	End	native	0.01143	0.06166	-0.09849
YHL010C:50:0_1	AACGGAATAGTAGCATGTGATTACTTTCTGGTTGGCCCTCACATCT	Start	native	-3.51388	-3.87631	-4.37039
YHL010C:50:0_15	AAAGGCATACAAGCATTGAAAGTACTACTTACTGATTACACTAACTACT	Mid	native	0.41042	0.33230	0.29681
YHL010C:50:0_29	AAAGTCCTACAAGAATCAAGATTACTACATAATTATATACAAGAATTACT	End	native	-1.09478	-1.49489	-1.24325
YHL035C:50:0_1	CACCTATATCTTATTCATGCTGCAACCTCAATGGTTCACCTCGGAGA	Start	native	-3.74005	-3.85131	-4.17070
YHL035C:50:0_13	GACCTATGTCTAATTCAAGAAACAACCTCAATTGTACACTACAAAGGAGA	Mid	native	-0.16970	-0.64070	-0.73630
YHL035C:50:0_24	GAGCTATGACTAAGTCAAGAACTACTACAAGACTACATTACAAGGAGA	End	native	-0.08682	0.01678	-0.04875
YHL038C:35:0_1	GCGCTGAAGGAAAAGTTTGAGACAGAGTGACCAAAA	Start	native	-2.60458	-2.73129	-3.58469
YHL038C:35:0_14	ACAAAGAAATCAAGATTCAAGACAAAATGACCAAG	Mid	native	0.22871	0.06117	0.32109
YHL038C:35:0_26	TACAAGACATAAAGAAACAAGACAAGACTACAAAG	End	native	0.75829	0.73972	0.74878
YHR146W:35:0_1	CAAAATCACTAAGAAAATCAATCTATCAATAAAA	Start	native	0.71554	0.71985	0.85015
YHR146W:35:0_10	TACAAATCACTACGAATACTAAAGTATCAAGCAAG	Mid	native	0.50343	0.48222	0.70176
YHR146W:35:0_18	TACAAATCACTACAATTACAAGAAAGCAAGCAAG	End	native	0.69477	0.61043	0.78004
YHR151C:50:0_1	TCTTCCCTTTTCTTTTTCATTTCGATTCGATTCGTTATAGACACGGT	Start	native	-2.85806	-2.15386	-3.59904
YHR151C:50:0_13	TCTGCTCTTTTCTTTTACTTATTTACATTGCGAAAGTTATATACAAGAA	Mid	native	0.88074	1.79737	-0.16589
YHR151C:50:0_25	TCTGCTCTTTTCTTTTACAAGATACATACAAGAAGCTACATACAAGAA	End	native	0.50667	0.24901	0.35509
YHR155W:50:0_1	GTTTTTCACTTCTATAGCTTTGGTATTGGTCATTGTAGAACAATTTTATA	Start	native	-1.06493	-1.44325	-1.89782
YHR155W:50:0_13	AGAAATTTACTTATATAGATTTGGTATTGGTAATTATATAAAATATATA	Mid	native	-2.19406	-3.14527	-4.76392
YHR155W:50:0_25	AGAATTTACTTATATAAACTATATAAACTAATTATATATAAACTATACA	End	native	-1.52960	-2.49574	-2.75626
YIL015W:32:0_1	AAAAATAAAAGAGTGTCTAGAAGGGTCATATA	Start	native	-0.93933	-1.00033	-1.37196
YIL015W:32:0_7	AAGATTACAAGAGTGTCAAGAAGGATTATATA	Mid	native	0.22123	-0.05955	0.24297
YIL015W:32:0_12	AAGATTACAAGAAAGACAAGAAGAACTATATA	End	native	0.47122	0.37918	0.47096
YIL026C:36:0_1	GATTGACCTGAGAACCAAGAGCTCGGACGAAGGTAAC	Start	native	-1.19477	-0.88916	-1.38160
YIL026C:36:0_9	GATTGAGCTAAGAACCAAGAGATAAGACTAAGATAAG	Mid	native	0.31021	0.38019	0.43246
YIL026C:36:0_16	AATCAAGACAAGACAAGCAAGAAATAAGACTAAGACAAG	End	native	0.17156	1.13378	1.50636
YIL101C:50:0_1	CCCACACAACGGCAAGCTCAAAATACCTTATCATAGACACCTTCTCCAAC	Start	native	-2.15764	-2.36885	-1.78834
YIL101C:50:0_12	TCCATACAAAGACAAGATCAAGATTACTTATCATAGACACCTACTACAAG	Mid	native	0.25669	0.23775	0.05822
YIL101C:50:0_22	GTCTTACAAATACAAGATCAAGATTATATATTATATAAACTACTACAAG	End	native	-0.74736	-1.33865	-1.80172
YIL102C-A:34:0_1	ACCGGTTGGGCATAGTAAACGCTGTGTTAGTTTC	Start	native	-3.60947	-3.85974	-3.89067
YIL102C-A:34:0_14	ACAAGTTTCATTCAAGAAAACGCTATTTACTATG	Mid	native	0.06389	-0.05060	-0.10881
YIL102C-A:34:0_26	AAAAGTCCCTACAAGACAAGAATTATTTACAAG	End	native	0.66552	0.42848	0.47112
YIL151C:50:0_1	GTTATTTTTAGGTTCAATACATAACAACAAGACCAGGATATCGCATAAT	Start	native	0.92935	2.29090	3.41334
YIL151C:50:0_13	GTTATATACAAGTTATATACAAAACCTACAAGACTACGTATATCGAATAAG	Mid	native	0.03875	-0.16595	-0.25659
YIL151C:50:0_25	GTTATATACAAGTTATATACATATATACAAGACTACATATTTACTACAAG	End	native	-2.25264	-2.93024	-3.45327
YJL006C:38:0_1	ATAGAGCCAGCAAACTAAGAAAATTACGTACTTTGAT	Start	native	0.20401	0.12899	0.08511
YJL006C:38:0_8	ATAAAGCAAGAAAACTACAAAAATTACATACTTAGAT	Mid	native	0.46149	0.40257	0.32683
YJL006C:38:0_15	ACAAAGCAAGACAACCTACAAGAATTACATATATAAAG	End	native	0.49670	0.25703	0.42641
YJL144W:33:0_1	AGCAAAAACAAGAGATAAGATAACAAGAAGAAG	Start	native	0.55581	0.47439	0.42131
YJL144W:33:0_8	AGAATAAACAAGACTCAAGATTACAAGAACAAG	Mid	native	0.63860	0.68329	0.67582
YJL144W:33:0_14	ATAATTTACAAGAATCAAGATTACAAAGACAAG	End	native	0.70692	0.73874	0.83781
YJL190C:16:0_1	AACATACATATCCAAG	Start	native	0.15469	0.03692	-0.04617
YJL190C:16:0_3	TACATACATATACAAG	Mid	native	0.10620	0.06047	-0.07748
YJL190C:16:0_5	TACAAATATATACAAG	End	native	0.29680	0.34195	0.37732
YJR117W:30:0_1	GAGGAAATAGAAAACCTGAGGCCCTTTATTC	Start	native	-0.73545	-0.86124	-0.20489
YJR117W:30:0_9	GAATATATACAAAACCTACAAGAATTTATTC	Mid	native	0.49966	0.53459	0.45780

YJR117W:30:0_17	AAATTTATATAAACTACAAGAATTTACAA	End	native	0.48794	0.42397	0.23326
YKL013C:15:0_1	AACTGATAGTAGGAA	Start	native	-1.82904	-2.12478	-2.42002
YKL013C:15:0_6	AACTTTTACAAAGAA	Mid	native	-0.18929	-0.12603	-0.22564
YKL013C:15:0_10	AGAAATTTACAAAGAT	End	native	-0.05448	-0.06578	-0.25602
YKL059C:50:0_1	TGAAATTTTCGGTAGCTCTCATCATATCGGCAGAGACTGGAATAGTGTAAC	Start	native	-3.24823	-4.36767	-4.37744
YKL059C:50:0_13	AGAAATTTCTGTAGCTCTCATTATATATACAAAGACAAGAATAGTACAAG	Mid	native	-0.14108	-0.41500	-0.17044
YKL059C:50:0_24	AGAAAGACCTATATACTAAATATATACAAAGACAAGATTACTACAAG	End	native	-0.32599	-1.09949	-1.27703
YKL112W:50:0_1	CTGCTGCACCTAGGAAACGTTTCAAATCACCATATTTGCAATTTACAAAGG	Start	native	-3.04728	-2.38883	-2.46378
YKL112W:50:0_10	CTACTACACTAAGAAAAGTTACAAATCACTATATATACAATTTTACAAGG	Mid	native	-0.05623	-0.36657	-0.17294
YKL112W:50:0_19	GTCCTACACAAAGAAAATTTACAAATACTATATATACAAAGTTATAAG	End	native	-0.04166	-0.48618	-0.27706
YKL162C:50:0_1	ATTTTCACAAAAAGTTGATATCATTAAAGGTGCTTTTGCGGGGATTGA	Start	native	-3.29761	-3.67524	-4.42222
YKL162C:50:0_14	ATTTACACAAGAAAGTATATATTATATAAGTTACTTTTGCAAGCAAGA	Mid	native	-0.32623	-0.99450	-1.33246
YKL162C:50:0_27	TTACATACAAGAACTACAACCTATATAAATTTACTACAAGCAAGCAAGA	End	native	-0.03097	-0.00009	-0.28522
YKL175W:19:0_1	AGTGAAGAAACGCAAGAAA	Start	native	-0.08144	-0.20913	-0.24214
YKL175W:19:0_4	AGACAAGAAAAGCAAGAAA	Mid	native	0.28395	0.18451	0.13478
YKL175W:19:0_7	ATACAAGACAAGCAAGAAAG	End	native	0.38799	0.42754	0.32617
YKL182W:50:0_1	TTTTTAGTATATTTATTCGCCACACCTAACTGCTCTATTATTCGCTCATT	Start	native	-1.73259	-2.12402	-2.35548
YKL182W:50:0_13	TATTTAATATATATATTCACCTACACTACTACTATATTATTTACTAATT	Mid	native	0.21700	-0.26685	-1.18129
YKL182W:50:0_25	TATATAAACTATATATTTTATATACTACTACTATATTATTTACAAAGA	End	native	-1.44782	-2.02986	-2.73829
YKR035W-A:17:0_1	AGACATCGCACTGAGAA	Start	native	-0.00478	-0.05237	0.49140
YKR035W-A:17:0_7	AGAAATTTTACAAAGAA	Mid	native	0.07473	0.03212	-0.02940
YKR035W-A:17:0_13	ACTAAGACTACAAAGAT	End	native	0.01430	0.01777	-0.07852
YKR065C:29:0_1	ATTCAGAAAACATTGTCGCCCTCTTCAAA	Start	native	-1.86224	-1.79103	-2.19256
YKR065C:29:0_10	ACTAAGACTACATAGTCAGCCACTACAAG	Mid	native	-0.28780	-0.19475	-0.47551
YKR065C:29:0_18	TACAAGACTACAAAGACTACTACTACAAG	End	native	0.16129	0.17275	0.01698
YLR014C:44:0_1	AACCCTTTAGAGTACATAAAACATACGAAGATGATGATTAAATC	Start	native	-4.08071	-4.95391	-5.22369
YLR014C:44:0_12	AAGCCTTTAGACTATATAAACTATACAACTTTACTATTTAAATC	Mid	native	0.24937	-0.07592	-0.18856
YLR014C:44:0_23	AACTATATAAACTATATAAACTATACAAATTTTACTACTACAAG	End	native	-1.71667	-2.34605	-3.02114
YLR072W:20:0_1	ATGGTACGTTGAATTGTAGA	Start	native	-3.01509	-3.25432	-3.38955
YLR072W:20:0_9	AACGTACGATGACTTACAAG	Mid	native	-0.22110	-0.30091	-0.41737
YLR072W:20:0_16	AAACTACAAATATATACAAG	End	native	0.38822	0.36109	0.12757
YLR075W:21:0_1	ATATCAAATACTAATTCAG	Start	native	0.36013	0.44143	0.39927
YLR075W:21:0_5	ATATAAAATTACTACTACAAG	Mid	native	0.40336	0.47210	0.27700
YLR075W:21:0_9	ACACAAGACTACTACTACAAG	End	native	0.24865	0.17405	0.08195
YLR099W-A:34:0_1	AGCACATCACTGCACGAGCAACAATAACTAGAAC	Start	native	-0.47873	-0.42692	-0.75807
YLR099W-A:34:0_7	AGAACATCACTACAAGAGCTACAATAACTACAAG	Mid	native	0.23413	0.24065	0.00044
YLR099W-A:34:0_13	ACAAGATTACTACAAGAACTACAAGACTACAAG	End	native	0.26294	0.24765	0.13563
YLR146C:30:0_1	AGGATAAAGTGACAGATTTCAGTTATACATT	Start	native	0.15038	0.06477	-0.01599
YLR146C:30:0_6	AGTATAAAGTTACATATACAGTTATAAATT	Mid	native	0.03535	-0.02841	-0.38844
YLR146C:30:0_10	AGTATAAAGTTATATACAAAGTTATATATT	End	native	-0.47208	-0.73407	-1.22881
YLR211C:50:0_1	ACGGATTAGTTTCGATAATTCACGACAGTTATACTAATCTTGGTGATGGA	Start	native	-3.16801	-3.59616	-3.47869
YLR211C:50:0_13	AAGGTTTAGTTAGATAATTAACACTACATATCTACTAATCTAAGTTATAGA	Mid	native	0.07204	-0.14472	-0.81138
YLR211C:50:0_24	AAGGCTACTTATATACTAACTACATATCTACTAAGACAAGAGATAAG	End	native	-0.25793	-0.66730	-0.70582
YLR242C:50:0_1	CAGTGAACGGATGAAGCGCATCAAAAAGTAGATATTAGCTGTGATAAACG	Start	native	-3.40292	-4.03684	-3.92111
YLR242C:50:0_13	CAGTCTACGGATCAAGCAAATCAAGAAGTATATATTATATTACAAACG	Mid	native	-0.05754	-0.52702	-1.03046
YLR242C:50:0_24	AAGACTACAAAGCAGACAAGACAAGAAGTACATATTATATACTACAAACG	End	native	0.10369	-0.10775	-0.07868
YLR249W:40:0_1	GTGTATTTTCTAGTTCGAATCCATCGATAACATTAAAAAG	Start	native	-1.29050	-1.65682	-1.78717
YLR249W:40:0_9	GTGTATTTTCTACTACGAATACAAAGACAAGATTACAAG	Mid	native	0.66612	0.67032	0.54336
YLR249W:40:0_17	AACTATATATTTACTACAATAACAAAGACAAGACTACAAG	End	native	0.21636	0.14577	0.12420
YML009C:42:0_1	AAGAATACAACATCGTAAGTGTTCATATTTATGTGCCGAT	Start	native	-2.25378	-2.39924	-2.91284
YML009C:42:0_14	AAGTAAACAAGATATAAACTATTTACATATTTAAGAGTCAAG	Mid	native	0.08085	0.07031	-0.14859
YML009C:42:0_27	TACATAACAAGATATATATAAACTATATATACAAGAATCAAG	End	native	-1.58561	-1.86921	-2.55510
YML051W:50:0_1	CCAGCGTATACAATCTCGATAGTTGGTTTCCCGTTCTTCCACTCCCGTC	Start	native	-2.96488	-3.42557	-3.78833
YML051W:50:0_15	CAAGACTATACAATCTACAAAGTTACATACAAGAACTTCCACTCCCGTC	Mid	native	0.21300	0.13009	-0.18927
YML051W:50:0_28	AGAAACTACATAATCTACAAAGCTACATACAAGAATTATATACTCAAGAC	End	native	-1.59648	-2.05266	-2.46075
YML063W:26:0_1	AAGCAAAAAACGATCTAGACTAATC	Start	native	0.09780	0.04412	-0.05866
YML063W:26:0_8	AAGCAAGACAAGTATCAAGACTAAAC	Mid	native	0.43676	0.43763	0.36616
YML063W:26:0_15	ATACAAGACAAGAATCAAGAATCAAG	End	native	0.27436	0.26352	0.15410
YML093W:24:0_1	AAGACAAAAAAGCTAACTTAAAT	Start	native	0.47539	0.36716	0.52877
YML093W:24:0_9	ATGATAAAACAAGCTAAGATGAAG	Mid	native	-0.06047	-0.36657	-0.24437
YML093W:24:0_16	ATGATAAAACAAGACAAGACTACG	End	native	0.14335	0.27304	0.08753
YMR047C:50:0_1	AACTGAGAGGCCACCATTCAGCTTCGAAGATTTCTTTTTTAAACATTATT	Start	native	-0.87048	-1.57782	-1.73894
YMR047C:50:0_15	AACTAAGACAAACTATTTAACTACAAAGATTTACTATATAAAACATGATT	Mid	native	0.07729	-0.32323	-0.18148
YMR047C:50:0_28	AGACAAGACAAACTATTTAACTAAATATATAAACTACATACAAGTACT	End	native	-0.40062	1.04842	-0.02209
YMR052W:20:0_1	ATATATAGTGATTTGCAAAAT	Start	native	-0.06969	-0.14763	-0.37501
YMR052W:20:0_4	ATATATAGTATTTTACAAAG	Mid	native	-0.22489	-0.33237	-0.58348
YMR052W:20:0_7	AGATATACATATTTACAAAG	End	native	0.32052	0.38727	0.30957
YMR175W:21:0_1	ATATAAAAAAGTATAGTCAAG	Start	native	0.44328	0.59905	1.38728

YMR175W:21:0_7	TTATATAAAATTACATACAAG	Mid	native	-0.38859	-0.56079	-0.86356
YMR175W:21:0_13	TTACATACAAGATTATACAAG	End	native	-0.05322	0.01223	-0.05150
YMR269W:39:0_1	GAATGATACAAGCGGAAATATTATCAGAATAAATCGGAC	Start	native	-2.92281	-3.52285	-3.54475
YMR269W:39:0_10	AAATTATACAAGACGAAAAATTACAAGAATAAATCTGAG	Mid	native	0.28497	0.20017	0.26062
YMR269W:39:0_18	AATTTTATACAAGACTCAAAATTACAAGAATAAGACTACT	End	native	0.45316	0.50230	0.35421
YMR293C:30:0_1	AATTGGAGTCTCTAATTTGATTATACAAAA	Start	native	-0.13784	-0.20228	-0.43905
YMR293C:30:0_10	AACTAACTACAACTAAGATTATACAAGA	Mid	native	0.33963	0.20378	0.14211
YMR293C:30:0_18	AACAAGACTACAAGTCAAGATTACACAAGA	End	native	0.88592	1.50860	1.94676
YNL056W:43:0_1	AAGTGAAGGCAAAATACCAATAGAGTGCACGTTTCTTGATGCT	Start	native	-3.23851	-3.57755	-3.66179
YNL056W:43:0_13	AAGACAAAGCAAGATACAAGTAGAGTGAACGTATATAGAAGTT	Mid	native	0.30044	0.13209	0.14816
YNL056W:43:0_25	AAGACAAAGCAAGAACTACAAGAATTAACCTATACAAGAATT	End	native	0.64703	0.72093	0.70918
YNL088W:50:0_1	TAACTTTCTGTTTCAGTTAAAGGAGTTTATAACGACCAGCACGGCTAACC	Start	native	-2.95091	-3.18684	-3.29740
YNL088W:50:0_15	TTACATACTATTTAAGCTAAAGAATTTTACAAGACAAGCAAGACTAAAC	Mid	native	0.54407	0.56526	0.49642
YNL088W:50:0_28	TTACAAACTATATAAACTACAAGATTTCAGATACAAGCAAGAATCAAG	End	native	0.33507	0.35195	0.43664
YNL158W:36:0_1	AAGCCAACATAGGTTCTGTTCAATTTTTAAAAAGAAAG	Start	native	0.14412	-0.02540	-0.15176
YNL158W:36:0_11	AATACAAGAAAGATACGTTCTATTTCTACAACAAG	Mid	native	0.17650	0.24347	0.12296
YNL158W:36:0_20	ACTACAAACAAGACAAGTACTACTACTACAAGCAAG	End	native	0.13665	0.28363	0.00802
YNL252C:20:0_1	ATAAGCGCTTATCCAGTACC	Start	native	-1.90372	-2.17949	-2.58937
YNL252C:20:0_7	ACAAGAATTTTCAAGTACA	Mid	native	0.02036	-0.07516	-0.17510
YNL252C:20:0_12	AGAATTATATAACAAGTACA	End	native	0.09467	0.02346	-0.12802
YNL316C:50:0_1	AAAAAGTACGAAAAGCAACTTCATTATATTTCCGATTTCATCCTTCAATT	Start	native	-0.55318	-0.87863	-0.86031
YNL316C:50:0_12	AGAAAGTACGAAAAGAACTACATAATATATACAAATTTATACTACAATT	Mid	native	-2.34550	-2.73942	-3.64166
YNL316C:50:0_23	AGAAAGACCTACAAGAACTATATAATATATACAAATTTACTACTAAG	End	native	-2.08286	-3.19069	-3.09198
YNL334C:47:0_1	ACCATGACCCCGTTGCTGGGGCCAAGACAAGAGTAATATCTCAAAA	Start	native			
YNL334C:47:0_12	ACCAAGACCCAAAGTTACTGAAGTCAAGACAAGAATTATATATCAAGA	Mid	native			-0.23814
YNL334C:47:0_22	TACAAGACACAAGAAACAAGATTTAAGACAAGAATTATATATCAAGA	End	native	0.52974	-0.08499	-0.00175
YOR032W-A:50:0_1	TGAATTGCACATGCCAGCGCTCGCAAAACATATAAAGTTGCCTCAC	Start	native	-1.62168	1.07558	-1.38503
YOR032W-A:50:0_13	AGAATTACACAAGACAAGCACGCTCGCAAGACATATAAAGTACTACTAAG	Mid	native	0.40614	0.48458	0.50394
YOR032W-A:50:0_24	AGAATTACACAAGACAAGCAAGAAAACAAGATACAAGAATTACTACTAAG	End	native	0.14291	0.04272	0.03681
YOR158W:21:0_1	AATAACAAGGATAATTGAAGT	Start	native	-0.40108	-0.50969	-0.61943
YOR158W:21:0_6	AATTACAAGTATAAGTCAAGA	Mid	native	0.32866	0.27798	0.16241
YOR158W:21:0_10	ACCTACAAGAATAAGACAAGA	End	native	0.21095	0.20367	0.10455
YOR259C:21:0_1	CAAAGATATTAATACTAAGA	Start	native	0.41264	0.33796	0.31671
YOR259C:21:0_4	CAAAGATACTATTTACTAAGA	Mid	native	0.41360	0.28963	0.26709
YOR259C:21:0_7	CAAAGTACTATTTACAAGA	End	native	0.30264	0.29916	0.24104
YOR295W:50:0_1	AAATTTTAACAAGTACTAAAGCGTTCTGTTGACAGCTTTCTTTGCGTTGCC	Start	native	-1.00620	-1.02336	-1.36829
YOR295W:50:0_18	AGAAATTTAACAAGTACACAAGATTTACTATACAGATTATATTGAGTTGTC	Mid	native	0.31973	-0.03996	0.01417
YOR295W:50:0_35	AGAAATACACAAGACTACAAGATTTACTATACAAATTTAACTATATAAG	End	native	0.27916	0.14009	0.18299
YOR297C:26:0_1	AACTGAGTAATTTAATACCTTTGGTA	Start	native	-2.19326	-2.51542	-3.00000
YOR297C:26:0_9	TACAAAGTTATATAATAACTATGATA	Mid	native	0.39866	0.29158	0.09180
YOR297C:26:0_17	TACAAAGATATATACAAGATGACT	End	native	0.81591	1.05581	1.39181
YOR305W:30:0_1	ACGGTAAAGACGGTAAAAACATGATAAAAAC	Start	native	-3.66658	-4.03590	-4.06798
YOR305W:30:0_12	AGAGTCAAGAAAATACAAGAATTATAAAAAC	Mid	native	0.41578	0.47720	0.36718
YOR305W:30:0_22	AAACTATATAAACTACAAGATTATACAAG	End	native	0.35517	0.21983	0.21334
YOR350C:36:0_1	GGCGAGAAAAAATGATAGTAGTGTGCCAAGAAGAAT	Start	native	-2.97821	-3.32422	-3.01525
YOR350C:36:0_10	AGCAAGAAAAAAGATACTATTGAGACAAGATGACT	Mid	native	0.08943	0.13645	-0.02422
YOR350C:36:0_18	TACAAGCAAAACAGACTATATACAAGATGACT	End	native	0.63371	0.61445	1.24908
YPL088W:50:0_1	GCCAACATGTAAATTTGGCTGTACGGAAGACCCACATCAGGCGGCAGAA	Start	native	-3.00066	-4.35628	-4.55168
YPL088W:50:0_13	GTCAACTATATAATTTATAAAATTTGGAAGACCTACATAAGGCTACAGAA	Mid	native	-0.70261	-1.03380	-1.61654
YPL088W:50:0_24	GTCAACTATATACTATAAACTATGAAAGATCTATACAAGACTACAAG	End	native	-0.06121	-0.74853	-0.63727
YPL119C-A:50:0_1	CTTTCTTTATCTCTTCGTTTCTACTCCAGTACTATACAGTCATACGTTTT	Start	native	-3.57853	-4.16862	-3.90794
YPL119C-A:50:0_13	CTTACTATATATCTTCGTTTTCTACTACATAACTATACAGACCTACAATA	Mid	native	-1.67377	-2.24469	-3.15233
YPL119C-A:50:0_25	TAAACTATATATATTATATAAATATATACTATACAGACCTACAATA	End	native	-2.51260	-3.65021	
YPL145C:50:0_1	TAGAAACAATCGAAAAATTTATAAGATTTAGTCTCAAGAAATTTCAAGTC	Start	native	0.23400	-0.10952	-0.20267
YPL145C:50:0_11	AAGAAACAAGTCAAAAAATTTACAAGATTTACAGACAAGAATTACAAGAC	Mid	native	0.39550	0.35903	0.48513
YPL145C:50:0_20	AAGAGACAAGACAACTATTTATATAATCTACAGACAAGAATTACAAGAC	End	native	-0.07379	-0.07921	-0.10095
YPL149W:50:0_1	TTGTTCTTTTGGTTCTAGAAGAACGGAGATAGGAAACCTATGATGTAAGT	Start	native	-3.84945	-4.39809	-4.52074
YPL149W:50:0_19	TTCTTCTTTTGTCTACAAGAAATAAGACAAGACAATTTTAACTAAGA	Mid	native	0.72792	0.77328	1.01184
YPL149W:50:0_36	TCCGACTATATAACTACAAGAATTAAAGACAAGATATAAATTTACAAGAC	End	native	0.00635	-0.58593	-0.36089
YPL179W:50:0_1	CATTTTCCTTCAAGTTAGATATGTTTTCCCTTCACCTATATCTATTT	Start	native	-1.34177	-1.82222	-1.96751
YPL179W:50:0_16	AAATTCCTATCAAGATATATAATTTATATAATTTACATATATACTATTT	Mid	native	-2.52639	-3.50782	-4.65055
YPL179W:50:0_30	AGAACTACAAGCAAACTATATAAACTATATAATTTACATAAAAACTACTA	End	native	-3.39381	-3.92077	-4.89424
YPL211W:42:0_1	GAGTAGTAGAACCATTTGAGGGAACTATAGTTAGGTGCAATA	Start	native	-2.58048	-2.64701	-3.28908
YPL211W:42:0_9	GAGTAGTACAACCATTTGAGAGAACTATATATATACAATG	Mid	native	0.18588	0.03507	-0.04913
YPL211W:42:0_17	AAGTCTACAAGAAATTAAGATAAACTATATATACAAG	End	native	0.22275	-0.35533	-0.56633
YPL222W:50:0_1	AAGTAGAAGAAGGAAGGTGTGAGAAAGAAGATAGAGCGTGTAAACACAATC	Start	native	-4.03144	-4.39677	-4.71702
YPL222W:50:0_12	AAGTCCAACAAGAAAGGTGAGAGAAACAAGATATAAAGTATAACACAATG	Mid	native	0.08930	0.08186	-0.22671
YPL222W:50:0_23	AAGTCTACAAGAAATCAAGACAACAAGATATAAAGTACAAGACAAGA	End	native	-0.10292	-0.26212	-0.39552

YPL231W:37:0_1	AAAGGGCTACAGCAACACCAATTGAAATACCATCATT	Start	native	-1.64848	-1.93654	-2.42481
YPL231W:37:0_12	AAAATTCTACTACAAGACAAATTGTACAACCATGATT	Mid	native	0.23969	0.28305	0.13596
YPL231W:37:0_22	AAAATCCTACTACAAGACAAGAATTACTACAAAGACG	End	native	0.56732	0.61172	0.58351
YPL279C:39:0_1	GCAGTTATTTAATTATTTAATCGAGCGTGTAATGCTCTG	Start	native	-3.80989	-4.26812	-4.55309
YPL279C:39:0_12	CCAGTTATTTAATTATTTAATTAAGAGTATATACTAAG	Mid	native	-0.59198	-1.11296	-1.63257
YPL279C:39:0_23	CAAGATATATATACTATATAAACTATATACTAAG	End	native	-3.07617	-4.13660	-4.62480
YPR132W:24:0_1	AAGAACAACAACTACAAGAAAAG	Start	native	0.55993	0.61822	1.27544
YPR132W:24:0_4	AAAAACAAGAACTACAAGACAAG	Mid	native	0.67520	0.65136	0.74917
YPR132W:24:0_6	TAAGACAAGAACTACAAGACAAG	End	native	0.72899	0.56407	0.73849
0_0	AAAACGTATTCACACCTCCCACCATGAGACTGTAGCCTGCCACACATTA	Start	random	-3.66927	-3.76623	-4.21354
1_11	AGAACGTATTCACACCTCCCAACAAGAACTGAAGACTACTACAAAAGA	Mid	random	-0.02158	-0.13743	-0.34762
2_22	AGAACTACTACAGACCTACAACAAGAACTATATACTACTACACAAGA	End	random	0.58290	0.43963	0.09051
3_0	AAAACGTGGCTAAGGGTTTCAACGTTACGGCTATCACACGTAGGGGAGCGC	Start	random	-4.00913	-3.82434	-4.10339
4_15	AAAAACAGGCTAAAGATTACAAGTTAAGACTATTACAAGAAGGTGAGATG	Mid	random	-0.16579	-0.05111	-0.68367
5_30	AAGTCTACAAGAACTACAAGATAAGACTAAGACAAGAAGACAAGATG	End	random	-0.20935	-0.07682	-0.22341
6_0	AAACGTATGCGTAGTGGCGGAAACACAGAAAAACGCATCCAGAATCGA	Start	random	-3.33123	-3.73401	-4.38205
7_13	AGAAGTATACGTAGTCACAGCAAGACAGAAAGACGCATACAAGAACTACA	Mid	random	-0.04232	-0.10334	-0.10716
8_26	AGAAAAATACGTATATAAATCAAGACAAAAAGTTATATACAAGAACTACA	End	random	0.13516	-0.18664	0.09418
9_0	AAATATGGGATAGATTGTAACAATAAACCCGCGACGTTGACGCGCCCTT	Start	random	-4.04457	-4.25125	-4.66181
10_14	AGATACAAGACAGATTGTAACAAGAAACAAGAGACATTGAACGCAGCATG	Mid	random	0.21278	0.24937	-0.23508
11_27	AGAAACAAGACAAATCGTCACAAGAATCAAGATATTTGAATACAAGATG	End	random	0.14306	-0.10241	-0.00024
12_0	AAATTACTTGACATAAGCAATTTGACCACCTACTCGGTGCGACTTACATCG	Start	random	-1.21883	-1.67705	-2.05853
13_15	AGATTACATAAGACAAGCAATTTTACTAACTACAAAGACTACTTACAAG	Mid	random	-0.23421	-0.50813	-0.75331
14_30	AGATTATACAAGACTATACAAGTTATATACTACAAAGACTATTTACAAG	End	random	-0.37030	-0.37600	-0.55623
15_0	AAATTTCAAATTTCAATGGCGCTACGCGTACGGGCGGACCCATTGGA	Start	random	-3.14018	-2.74344	-3.32064
16_14	AGATTACAAAGACAATGGCACTACAAGAAACAAGCAGACCCATGATGAGA	Mid	random	-0.23489	-0.67665	-0.19018
17_28	AGATTACAAAGACAATGTCACTACAAGAATCAAGATACTACAAGACTACT	End	random	0.26628	-0.33097	-0.04681
18_0	AAATTTGGACAATCGAGTACCGCACAAGCCTCGTCATGTCGCTAGGAAT	Start	random	-2.39480	-2.81536	-3.37509
19_13	AGAATTACACAAGCAAGAAGCTACACAAGCCTCGTCATGACAGCTAGCAAG	Mid	random	0.47464	0.46883	-0.02389
20_26	AGAATTACACAAGACTAACTATACAAGACAAGACAAGACGCAAGCAAG	End	random	0.26169	0.40519	-0.02393
21_0	AACAACCGATCAAGTTTCACTTTGATCGAAATTCACATCCACCACGACG	Start	random	-2.76781	-2.86886	-2.28261
22_11	TACAACCGATCAAGATTTACTTTGAATCAAGAATTACATACAAGATGACG	Mid	random	0.26278	0.26065	0.13625
23_22	TACAACTATAAAGATTTACAAGATACAAGAATTATATAAGATTAAG	End	random	0.69643	0.41700	0.36128
24_0	AACATCATTGAACGACAATCCGGTATACAACCTGCGGTACTTTGTGTCATT	Start	random	-1.72373	-1.70553	-2.33707
25_14	AAGATAATTCACACTACAAGACAGTATACAACCTACAGTACTACGAGTCAAG	Mid	random	0.72411	0.59686	0.88583
26_28	AAGACAATCTACTACAAGAACTATATAAATTTAAGATTACAAGACAAG	End	random	0.18423	-0.24474	0.01088
27_0	AACGACCTAGCTATACCCATCCGGGTGTGTCGAGTGTGTCAGTGAAAA	Start	random	-3.40320	-3.92976	-4.65056
28_15	AAAGGCCAAGAGATACAATCCGAGTTTACAAGTGTACAGTACAGAAA	Mid	random	-0.33436	-0.08831	-0.38571
29_29	AAAGTCCAAGAACTACAAGACTAAGATTACAAGATTTACTACACAAG	End	random	0.36889	0.40374	0.19017
30_0	AAGCCCTGACGTATGGTGTCTAGGATATTCGTATAGCCTAAGATTCAG	Start	random	-2.97663	-4.18684	-4.45369
31_12	AAGGCAAGACGTACAGTGTACAAGAATATACGTATATACTAAGATTAAG	Mid	random	-0.19217	-0.51440	-0.19557
32_24	AAGGCAAGAACTACAATCTACAGATATATCTATATAACAAGACTAAG	End	random	-1.73644	-2.56297	-2.70540
33_0	AATATCAGGTGCGCCTTCTAGACGATCTGAGCATTGCGCGCTCCGCC	Start	random	-3.40761	-3.76403	-4.05723
35_35	TATATAACTATATATATAAGACAAATACAAGAATTATACAACCTATAAG	End	random	-0.56507	-0.96508	-1.64609
36_0	AATCAGGGCATTACCAATTGCCCAATGAAAGTATTCAAAGTATCCGGCC	Start	random	-3.40296	-4.51774	-4.77292
37_14	AGACAGGTCATTACAAAATTACACAAAGAACTATACAACCTATAAGGCC	Mid	random	0.33908	0.38319	-0.11458
38_27	AGACAAGAACTACAAAAGTATACAAATAAACTATACAACCTACAAAGAT	End	random	0.23130	0.14506	0.08436
39_0	ACAACGATCACTGGCCTGTAGCCAAGTGCACTACACATTTACAGCAAAAGT	Start	random	-2.97253	-3.19869	-3.63148
40_11	AGAAAGATCACTGGACTATAGACAAGAACATTACAAAATACAAGCAAAGT	Mid	random	0.38392	0.14356	-0.43195
41_21	AGAAAGATCACTACATATTAGACAAGAAACTACAATTAACAAGACAAGA	End	random	0.06484	-0.01237	0.03985
42_0	ACACGACGCGATCCTAGGGTCCATCCGGTGGAATATTTCTCCCTTTTAC	Start	random	-3.12211	-3.65169	-3.65817
43_16	AGACTACAAGATCCTACAGTCCATCAAGTAGATATATACTATATACAA	Mid	random	-2.55570	-3.67514	-3.29609
44_32	AGATTACAAGAACTACAAGATTTAACTATATATAATTTTACAAG	End	random	-0.22274	-0.56274	-0.50864
45_0	ACAGCGCCCAAGGTTCTGTAATTACTTTATGCAAAAAGCCCGCGGCGA	Start	random	-1.75414	-2.59056	-1.83340
46_14	AAAGCCCACAAGATTATACAATTACTACAAGCAAAAAGTCCCGCCAAGA	Mid	random	0.22500	0.03935	0.00266
47_28	AAAGTCCAACAAGTTATATACAAGAAGTACAACCTATAAGTCAAGACAAGA	End	random	0.36403	0.27776	0.28831
48_0	ACCAATCCAACATACGTCGCAACCATCTGACGAGCGTATCGTAAATCTG	Start	random	-2.13539	-3.06549	-3.35050
49_14	TCCAATACAAGATACATCGAAACTATATAACAAGATTTACTAATATG	Mid	random	0.30440	-0.06039	0.07007
50_27	TCCAAGACAAGAACTACAAAGTTATATAACAAGACTACTATACAAG	End	random	-0.07806	-0.20372	0.37875
51_0	ACCCACGCTGCCCTGTGTATCCGATAGGACGCGATGGTTACAACCTCTG	Start	random	-2.96021	-3.12431	-3.29135
52_17	TCCAAGCTACAGTTGAGAATACTACAAAGACAGATTTTACTACTAAG	Mid	random	0.13795	0.13021	-0.30890
53_33	GTACAAGACAAGAATCAAGATTACTACAAGACAACCTATTTACTATAAG	End	random	0.43545	0.26898	0.15345
54_0	ACCGCTGTAGATACACAGCGAGCAGCGCGACCTCCACACTCAACCGGA	Start	random	-2.56707	-2.86713	-3.28908
55_13	TCCGACTATAGATACAAGCAAGCAGACAAGACCTACATACTAAGACAGA	Mid	random	0.07324	-0.03809	0.18634
56_25	TTACACTATATATACAAGCAAGCAAGCAAGAATTACATACAAGACAAG	End	random	0.51888	0.49374	0.83771
57_0	ACCTGCAACCGTACTGCAAACTCTGGCATCCATTAGTGATCCTCGTCAGAG	Start	random	-2.86830	-3.07034	-3.68211
58_16	TCCTACAAGAGTACTACAAATCTACTATATATTAAGATCCTCGTTAAG	Mid	random	-0.34342	-1.11655	-0.82778
59_31	TACTACAAAAGTACTACAAATAAACTATATACAAGAAACAAGATTAAG	End	random	0.01803	-0.10103	-0.25306

60_0	ACGAACAAGTCTCACTGCCGAAAACTGTCTGCCCGTCGTCGTTAAGT	Start	random	-2.15191	-2.57476	-2.63858
61_13	AAGAACCAAGACTCAATGACGAAAAACAAGTCTACAAAGTCTACATTAAAGT	Mid	random	0.16351	-0.05392	0.00968
62_25	AGAAACAAGACTCAATGAAGCAAAAAAGAACTACAAAGACTACTACAAGA	End	random	0.41918	0.55486	0.60797
63_0	ACGATACAGCTCCCTCACATTATAATGGATCCCGAGGAGGTAACACCATT	Start	random	-3.55773	-4.56046	-4.94476
64_11	AAGATACAAGTCTCAACAAATTATAAAGGATTACGAAGAGGTAACACCATG	Mid	random	-0.11199	-0.13209	-0.04956
65_22	AAGAAACAAGTCTCAACAAATTATAAAGTACTACAAAGACTACAAAGCAAG	End	random	0.33942	0.52905	0.33623
66_0	ACGATACTCGACCCATCTGTGGCCATCAAGCCCCATGCCACGGACAGCCG	Start	random	-3.71639	-4.34134	-4.33797
67_13	AAGATACTCGAGCCATGAGTGACTATCAAGACACAAGACACGTACACAAG	Mid	random	0.15513	0.94596	-0.62733
68_26	AAGATATACAAGACAAGAGATACTATCAAGACACAAGAAAATTATACAAG	End	random	0.21779	0.34556	0.10351
69_0	ACGCAGCGGACCAACCTTCATGAATTGCGTCCCTACGGAAGAACTGCTAC	Start	random	-3.24675	-3.78440	-4.52365
70_13	AGACAACGTACCTACATACAAGAATTAAAGTCCCTACACAAGAACTACTAC	Mid	random	-0.14616	-0.24289	-0.64828
71_25	AGACAAAGACTACATACAAGAATCAAGAAACTACAAAAGTACTACAAG	End	random	0.31799	-0.01615	0.21795
72_0	ACGCAGTCTGCTGTTTACCATGAAATCGCAAAATTAAGTGTAGCCGGCAA	Start	random	-3.56222	-4.66843	-4.66093
73_14	AAGCAGTCTACTATTTTACAAGAAACTACAAAATTAAGACTAGCAAGAAA	Mid	random	0.55853	0.29906	0.84408
74_28	AGATTATATAAAATTTACAAGAAACTACAAGACAAGACAAGCAAGAAG	End	random	0.73776	0.65937	0.27771
75_0	ACGGATAAGATATATCCACCAGCTACTTGGAGTAGCGCCTGTAACACAA	Start	random	-2.32101	-3.30954	-4.18185
76_11	AGAGATAAGATATATACAAGCTACTAAGAGTACAAGACTATTACACAA	Mid	random	0.14120	-0.06896	-0.12245
77_22	AGAAACAAGATATATACAAGCTACAAGACTACAAGATTACTACAAG	End	random	0.50633	0.53931	0.75213
78_0	ACGTGATACGGAGCCACCCAAAAATTAAGTCTGCGTCTTGAGTCTCG	Start	random	-2.71954	-2.64067	-4.05831
79_12	AGGTGATACGGAGCCACCAAGAAATTACATACTACTTATACAGTCAAG	Mid	random	0.03363	-0.55096	-0.72495
80_24	AGATTATACAGACATACACAAAGAACTACATACTATATATACAGATAAG	End	random	-1.33121	-1.30657	-2.39380
81_0	ACTACTTCAGTAGATATTTCCCTGGACTTCGCGGCCCAACATTCTCTCC	Start	random	-2.74986	-3.14658	-3.39531
82_16	ACTACATTACATAGATATTTACAAGACTACGAAGACTAAGATTACTACT	Mid	random	-0.06742	-0.18258	0.03020
83_32	AGAAATTTAACTATTTTACAAGACTACAAGACAAAGACTACAAG	End	random	0.85103	0.32669	0.51381
84_0	ACTAGTAACGAAGTGACGACTGCATGGCTGATCCAGTGACCTATGTCTT	Start	random	-3.06030	-3.46341	-3.47775
85_14	AGAAGTAATCAAGTTACGACTACATACTGATCAAGAGAACTATTTATT	Mid	random	0.15153	-0.18801	-0.05007
86_27	AGAAGTACACAAGATACAAGATATAAATAACAAGACAACTATATATT	End	random	0.42759	0.09492	-0.03453
87_0	ACTCAACTAGGCGCGTAAAAGGGGGTGAGCTACTAGATCCGAGAATCCT	Start	random	-2.49070	-2.93938	-3.05213
88_16	ATTCAACTATGCAAGTCAAAGGTGTCAAGAGACAAGATTCAAGAACTACT	Mid	random	0.18558	-0.09271	0.01402
89_31	GTCCTACAAAACAAGACATAAGATACAAGAAACAAGAATCAAGAACTACA	End	random	-0.05731	-0.07523	-0.39449
90_0	ACTTCTCCATAGCTAAAAGGCAGCGCAAGCGCAAGGACTCTATGCAACCG	Start	random	-2.07666	-2.30129	-2.16704
91_13	AGTTCTACAAAGCTACAAGCAAAGCAAAGTACAAGACTATATACAACG	Mid	random	0.37439	0.77891	0.60413
92_26	AGAAGTACAGAACTACAAGACAAGAAACTACAAGATTATATACAAGAA	End	random	-0.11374	0.24157	-0.16417
93_0	AGAACGAATTACAGGTAGTACCCTGCCATCGCGCAGTGCCGCAAGTACT	Start	random	-0.79775	-1.43294	-0.56482
94_15	AGAAAGACCTACAAATATTACACTACTACAGCTACGTATCGCAGTTTACT	Mid	random	0.10992	0.37022	0.08915
95_29	AGAAAGTCTACAAATACTAACTACTACTACTACAAGTCAAGATTACA	End	random	0.86228	0.74117	0.73310
96_0	AGAAAGTGAAGGTACAGGATGCGCTAGATTGCGCTGACAGCTAAGCGCGA	Start	random	-4.04614	-4.41739	-4.35216
97_14	AGAAAATCAAGATCATGAGATACTCAAGATTCACAAGACAGCAACAAGA	Mid	random	-0.06237	-0.06519	0.00916
98_27	AGAATTACAAGACTATGAAAGACACAAGACTTACAAGACAGAAATCAAGA	End	random	-0.24054	-0.66647	-0.52501
99_0	AGAGCCGTAGCGTCCGGAACGCAACAGGTAGTAACGCATGACCTCGGAAC	Start	random	-2.98892	-3.31348	-3.62092
100_14	AGAAAAGTAGCGTCAATGAAAAGCAACAAGAAGTAACGCAAGACCAAGCAAG	Mid	random	0.40831	-0.01691	0.25522
101_27	AGAAAGTTAAGATCATGAAAGACACAAGATTTAAATCAAGAACCAAGCAAG	End	random	-0.22536	-0.03558	-0.51001
102_0	AGCAGTCATTCCATTCCGCAATACTTTCGCTATAAATACTATAGCCACAG	Start	random	-0.87532	-0.71222	-1.67197
103_11	AGAAGTCTTCAATTACGCAAGACTTTAACTATATATACTATATACAAG	Mid	random	-1.19045	-1.42180	-2.10019
104_21	AGAAGTACTACAAATATACAAGAATCAAACATATATAAATACTTATACAAG	End	random	-0.28875	-0.63467	-0.73869
105_0	AGCGGATAGAGATCGTCTAACGTCAGTAAGACGAATCGGTACTAACGCTA	Start	random	-2.66450	-3.14012	-3.51563
106_14	AGACTACAAAGACAGTCTAACGTAACAAGACAAATCGTTACTAACGATG	Mid	random	-0.47778	-0.68118	-0.80639
107_27	AGATTACAAAGACAAATTAACCTAAACAGACATATAACTATTAATATG	End	random	0.52414	0.31157	0.38100
108_0	AGCTAAAGTAACGCGCGCAATTAACCTCGGCTGATCGTCGTTGAAAAAAA	Start	random	-1.38971	-1.96720	-1.85382
109_11	AGATAAAGTAACAAGACGCAATGAACCTGACTGATCGTCGTACAAGAAAG	Mid	random	0.11277	-0.06169	-0.15677
110_22	AGAAAAAGAAACAAGACTAAATGAAGTCTACAGATAGTTGTACAAGCAAG	End	random	0.22029	0.37799	0.36140
111_0	AGCTGGGGGTCGCCCCGATCAGCACACAGTAGGGGGATACCACATACTGG	Start	random	-4.11253	-4.02568	-4.06138
112_15	AGCTGAAGGTGCGCCGCAAGATTACAAAGTACAAAGATACTACAAAACAAG	Mid	random	-0.01310	-0.34808	-0.21391
113_30	AGATAAACTAAGAAAACAAGATTATATACTACAAAGACACTACAAGCAAG	End	random	0.51107	0.46562	0.57465
114_0	AGGTAGCACGATTGACCCGAGAATATTAATCTTCTGTGGAGGTGCTGTC	Start	random	-3.61873	-3.81295	-4.21331
116_21	AGAAAGCAAGATTTATACAAGACTACTAACTACATACAAGATGACTAGT	End	random	0.56861	0.36094	0.34864
117_0	AGGTAGCATCGGATCATCTCGTACAAAGCTAGCCCTATATCCGACTTAA	Start	random	-0.96637	-1.50756	-1.45766
118_13	AGATAGCATTGGATAATCTACATACAAGCAAGACGTATATAAGACTAAG	Mid	random	-0.00080	0.02889	-0.37674
119_25	AGAAAGACCTATATAATTTACATACAAGCAAGTTATATACAAGATTAAG	End	random	-2.47028	-3.18598	-3.74373
120_0	AGTAACTGACGAGTTTTATACCGACGAAACGCCCTCCGACAGCAACTCC	Start	random	-2.01746	-2.75982	-2.73791
121_11	AGAAATTGACGCAGTTATATACACTACAAAACGACTACTACAGTAACTAC	Mid	random	-0.07983	-0.62654	-0.63206
122_21	AGAAATTGAACCAAGTTATATAAATACAAGACTACTACTACAAGAACTAC	End	random	-0.16117	-0.27788	-0.22748
123_0	ATATCAACTTGACTTGCCAGAACCTTCCCTGGGACTGCGTGGAACACGGT	Start	random	-2.90511	-2.98562	-3.73310
124_12	ATATCAACTTGACTTGCAAGAAACTACACTAAGACTACAAGAACAAAGAT	Mid	random	0.34020	-0.13930	0.16179
125_24	AGATTTACTATACAGACAAGAAACTACAAGAACTACAAGATCAAGAT	End	random	-0.00842	-0.00237	-0.16167
126_0	ATACTCACTAGGCGAATTTCAAGGCGCTACCATACCGAAATGATCAACCAG	Start	random	-0.77899	-1.15495	-1.35575
127_10	AGATAACTAGAAGAATTTCAAGACACTACAATACAGAAATGATTAACAAG	Mid	random	0.11671	0.48231	0.21475
128_19	AGAAAAGTACAAGAATTACAAGACACTACACTACAGAACTATATACAAG	End	random	1.24453	2.85235	2.06229

129_0	ATATTAAGTGTGGTGACGAAGGACGCTACGCACCCGCTCTACGGTAAA	Start	random	-2.16626	-2.34716	-2.77274
130_15	AGATTAAGTGTATTTACGAAGAACTACAGACACAAGACTAAGATAAG	Mid	random	0.28417	0.19880	0.00361
131_29	AGAATTACAGTTATATACAAAGAAAACTACAAAGACAAGACTAAGACAAG	End	random	0.12550	0.57743	0.74500
132_0	ATGCCCTACAATTTGCCATTATCGTGTACACACTGCCGTAATACGATT	Start	random	-3.05104	-3.58200	-4.03679
133_12	AAGCCCTACAATTACACTATTTATCGTATATAAACTACAGAAATATAATT	Mid	random	-0.98056	-1.26079	-2.31584
134_24	AAGGCCACAAATAAACTATACAACTATATAAACTACAGATATATAAAT	End	random	-3.35994	-4.04488	-3.56780
135_0	CAAAAGACCGTTCGGGGTCAGTACTGGAGTTAATCAAGTTTCGACCTAGT	Start	random	-2.27989	-2.73773	-2.91616
136_13	AGAAAGACCGTACAAAGTCAGTACTGAAGTTAATCAAGAATCTACAAAGT	Mid	random	0.06233	-0.09431	0.09301
137_25	AGAAAGACACTACAAAGACACTATACAAGAAAAGCAAGAACTACAAAGA	End	random	0.14329	0.12295	0.14118
138_0	CAAGACTCGAGCGCTCACCCATAAGTTGATGCGGTACGACCTTACCCGAC	Start	random	-3.68097	-3.02923	-3.63731
139_15	CAAGACTCAAGAACTATACAAGAAAGTTAATTAAGTATGAACCTTACCTGAC	Mid	random	0.08833	0.02441	-0.11417
140_29	CAAGACACAAGAATTATACAAGAACTACATTAAGTATGACAGTATATAAG	End	random	-0.22723	-0.88019	-0.80334
141_0	CAAGTAAGCCTCCGCAACGCATGTACGCCATAGTATGTCTCCTGAATG	Start	random	-4.19195	-4.84025	-4.58995
142_16	CAAGAAAGATCAAGCAAAACGCAAGAACTACAAAGTATATAAGCAAGAATTG	Mid	random	0.17228	0.18074	0.52622
143_32	CAAGAAAGGTCAAGAAACTACAACTATATAAACTATATATAACAAGAATT	End	random	-1.06785	-0.99249	-2.35943
146_26	TTATATAAACTATACAAGTTATATACAAGATTAACTATAAATATGACT	End	random	-1.13853	-1.60840	-1.98018
147_0	CACATCACTCAAGTCGCGTACGATTACGCGGCAAAAGAAAACATAGACCA	Start	random	-3.11228	-3.88661	-3.35722
148_11	GACATCACTCAAGTCTACTACGATTACAAAGCAAGAGAATACAAAGACAA	Mid	random	0.20295	0.23796	0.15770
149_21	GTCAACAAGCAAGAAGACTACGATTACAAAGCAAGATACTACAAAGACAA	End	random	0.50140	0.19286	0.13400
150_0	CACCTCACGTTTCGACATTACGTGTGTAATTTCCGGTACGTGATAAACAAC	Start	random	-1.84505	-2.41990	-2.88756
151_13	GACCTCAAGAACTACATTACGAGTATAATTTACGATAAGTTATATACAAG	Mid	random	-0.00753	-0.07082	-0.31095
152_26	TTACACAAGAACTACACTACTTATATAAACTACAAAAGTTATATACAAG	End	random	-0.45552	-0.85450	-1.07415
153_0	CACCTGGAACCTTGCCGTTGACTGTGGCGTCACAAATGTAGGTTGCCCG	Start	random	-3.71231	-4.22961	-3.86334
154_17	GTCTCGAAACCTTACAGTTGACTATATAGTTACAAAGTCAAGTTACAAG	Mid	random	0.02011	0.04717	-0.32361
155_34	GTCAAAGCAAGATAAACTATAAACTATTTATTAACAAGCAAGATTAAAG	End	random	0.30485	0.11681	-0.26137
156_0	CACGGGTTACCTTTCGAGCGAAGGCACGTCGCAAGGACGTTTTTACGCGA	Start	random	-3.64054	-3.50482	-3.88861
157_16	CACGGGTTACCTTTCGAGATAAGTCAAGAAACAAGATTACTATACAAGA	Mid	random	0.23629	0.07388	0.06091
158_31	TACAAGCAAGATTACAGACAAGACAAGAAATCAAGATTACTACACAAGA	End	random	0.34112	0.32917	0.13792
159_0	CAGATTCCACAAACGCTGAAGCCAGTGAACAAACCTGACTAGCGTGGT	Start	random	-1.24188	-1.67744	-1.72251
160_12	AAGATACTACAAACGCTGAAGACAGTGAACAAAGCAGATACAAGACTAAG	Mid	random	0.21586	0.19811	0.31324
161_23	AAGATACTACAAAAGTTATATACTAAGAAACAAGATTATACAAGACTAAG	End	random	0.19885	-0.12048	0.21309
162_0	CAGCACGTCGCTTCTCGCCTTACGAACAAAGCAATAGCGAGAATGCAAA	Start	random	-2.68117	-3.11694	-3.79360
163_13	AAGCAAGTCCCATACTAGCCTTACAAACAAAGCAAGTCAAGTATACAAG	Mid	random	-0.28789	-0.02531	-0.43578
164_25	AAGCAAGATCAATACAAGAAATTACAAAGCAAGCAAGATTACTATACAAG	End	random	0.42431	0.89546	0.73557
165_0	CAGCCAACCTTCTGTGACAAGGAGACTCGGAGCATCCGGCCTTCTCGGC	Start	random	-3.31672	-4.21944	-4.25004
166_12	CAGCCAAGACTACAAAGACAATGAGACTCGAAGAATCCGACCATCTCGGC	Mid	random	-0.55997	-0.70408	-1.11274
167_24	CAGTCAAGACTACAAATAAAATGAGATTCCAAGAAAGCCTACTATATAAAC	End	random	0.02136	-0.31411	-0.32930
168_0	CAGGTTGCTTCGCTAAGGCGTCAGTTGTGATTAGCAGCACTGGTGGTGAG	Start	random	-2.88161	-3.11660	-2.61673
169_16	AAGATTATTCACTAAGACAACAGTTATGAATAGAAGCACTACAGATAAG	Mid	random	0.65349	0.24349	0.13809
170_31	AGATTATACAAACTAAGATTACAGATATGACTAAAAGTACTACAAATAAG	End	random	0.43702	0.46788	0.58024
171_0	CAGTGATAACCTCGCGTAGCCGGTCAACAAAACCGGTTGCTGGAACGAG	Start	random	-1.82894	-2.18122	-2.81466
172_14	AAGATATAACCTACGGTAGTCAGTCAAGAAACAAGATACAAGAAACAAG	Mid	random	-0.01542	0.06232	0.10969
173_28	AAGATTTACACTAACTACTAAGATAAGAAAAACAAGACACAACAAGCAAG	End	random	0.39435	0.59905	0.13774
174_0	CATCGGGAACCGTATCGCTCAAATGAATAAGAAAAACGTCGCCGAGCGCG	Start	random	-3.30937	-3.72533	-4.40173
175_13	AATCAAGAAACGTATCGCTACAAGAAATAAGATACAAAGTCCCAAGCAAG	Mid	random	0.21997	-0.13962	-0.18338
176_26	AGACAAGAATTACACTTACAAGAATCAAGATACAAGTTACAAGCAAG	End	random	0.12968	0.22726	0.17853
177_0	CCACGATATGTTGTACGCAAGAGGACTCATAGCACTGAAGCGAACACGT	Start	random	-3.63386	-3.39107	-3.78334
178_15	AGACTATATATTCTACAAAACAAGACTCATAGCACTAAAAAGTAAACAAGA	Mid	random	0.35862	0.32966	0.33163
179_30	AGATTATATAAACTATAAAACAAGACAAGAAGTACAAAGACTACACAAGA	End	random	0.31271	0.02562	0.52131
180_0	CCATCATTTTGTCAAGGTTGATATACGAACCTCCACGAATTACCATCG	Start	random	-1.50209	-1.96395	-2.33274
181_10	CCATCATTTAGTCAAGATTATATATACAAACTACACAAGAAATTACAAACG	Mid	random	-0.13519	-0.21993	-0.34894
182_20	AGACTATACAATCAAGATTATATATACAACTATATAAGAACTACAAACG	End	random	-1.36579	-2.44478	-3.06154
183_0	CCATTGTTCTGAGGTAAGACATCGCAACGTTGCGACAGATGCAGCACTCA	Start	random	-1.70794	-2.07634	-2.15276
184_14	CTATATATCTAAGACAAGACAACGCAAGTTACGAAAGATGAAGGATTCA	Mid	random	0.23640	0.33657	0.26711
185_28	TTACATATACAAGACAAGACAAGCAAGATTATAAAAGATGACAGCTACT	End	random	1.58699	3.03748	0.88362
186_0	CCCAAACATCGGGTCTGGGCACGGCTGTAATTCAGCCGAGCTAGACACA	Start	random	-2.95005	-3.44689	-4.03015
187_10	TCCAAACATCGAGTATGAGCACGACTGTAATTCAGACAAGCAAGACAAG	Mid	random	-0.01343	-0.35842	-0.74121
188_20	TACAAGATTAACTATGAGCAAGACAGTAATTCAGACAGACAAGACAAG	End	random	0.05460	-0.13592	0.24050
189_0	CCCCGTCGAGACAGATATTTTCCGACCTAACACGAAAAATCGGACGAG	Start	random	-1.56413	-1.95155	-2.13467
190_12	CCCCAAGGCAGACAGATATTTTACTACAAAGACAAGAAAAATAAGACAAG	Mid	random	0.09206	-0.30635	-0.07584
191_23	GTCCAAGACATACATATATACTACAAAGACAAGACTAACAGACAAG	End	random	0.00917	-0.28050	-0.06152
192_0	CCCTTACGTACCGGATTAAGTCTTCTGTCCATTGTGTACCAAAGGAATT	Start	random	-2.03091	-2.43122	-2.40295
193_12	TCCTTACGTACAAAGATTAAGACTACAGACCAATAAGTACAAAAGGAATT	Mid	random	0.29747	0.13827	-0.15093
194_24	TCCATATATACAAAGAATAAGACTATACAAATAAATACAGAAGAAATG	End	random	-0.88589	-1.21962	-0.68471
195_0	CCGTGCTTCGCGAAGCTCGCCGGTAGATACAGGAGGATGTGATCTC	Start	random	-3.50465	-3.54735	-3.70049
196_18	CCGTGCTTACTAGAACTAAGATGCAAGATTACACAAACAAGATGGATCTA	Mid	random	-0.10862	-0.06636	-0.33599
197_35	AGATTATACAAACATTTAAGATGCAAGACTACAAAGACAAGATGGATCCA	End	random	0.23814	0.60831	0.46110
198_0	CCTAGGTCCAAACCAAGAGCGTTGCGACATCTTCCGAATCTTTCCGGAT	Start	random	-3.05431	-3.67387	-3.39027

199_13	CCAAGATCCAAACCAAGAAAGTTACTACAGCCTACAAATACTTACAGAT	Mid	random	-0.48550	-0.62842	-0.90365
200_25	AGAAATTTACAAGCAAGCAAGATATTACAGCCTACAAATATTTACAAAG	End	random	0.56723	0.26928	0.09271
201_0	CGACTATCCCAAGTACACGCTGCCTCGCTGTTACAAGCTAGTCGCGAGG	Start	random	-2.20277	-2.45654	-3.05405
202_12	AGACTATCCCAAGTACAAGATACAATACTATTACAAGATAGTCGCAAGA	Mid	random	0.26254	0.11811	-0.15956
203_23	AGAAAGTACATAGTACAAGATACTACTACTACTACAAGACAGTTACAAGA	End	random	1.69777	2.65248	2.68774
204_0	CGAGAACACAGCCCCATTGGGAAACATTCTGTATCGTGAGTGAGTGGGG	Start	random	-0.11328	-1.30583	0.49991
206_31	AGAACTATATATTTAACAAGATATATATTATATTAATTATATACAAG	End	random	-2.47768	-4.03579	#N/A
207_0	CGAGACCTATGCGAACCAAGTTGCATTAAAGCGTTGACAGCGCTTTTACC	Start	random	-2.89835	-3.40947	-3.71282
208_12	CAAGACCTATACAACCAAGTTGCATCAAGAAAATTACAAGATTTTACA	Mid	random	0.16142	-0.08170	-0.34783
209_23	CAAGAACTATATAAACTAAGATACTACAAGAATACTACAAAGACTATACA	End	random	0.28969	-0.15641	-0.12261
210_0	CGATAGGTTTGGTAGGTTTCGGTGAGAGCATAGTGTGCGCTGCAAAAATG	Start	random	-3.03335	-3.38564	-3.54375
211_13	AGAAAGGTTTGGTAGGTTAAGTAAGAGAATAGTCTAAGACTACAACAAG	Mid	random	0.05965	-0.04003	-0.12765
212_25	AGAAAGACCAGATAGGCTAAGTAAGAAAAATAAAGCTAACACTACAGATAAG	End	random	0.00247	-0.34615	-0.27552
213_0	CGGCGCCAGAGCTTACGCTCAACAAAATACACCTCCCAATCCTTGCAATA	Start	random	-3.10093	-3.51062	-4.18195
214_14	AGACACAAGAGCTTAAGTCAAGAACTACATATTTCCAAGTCGTTACAAGA	Mid	random	0.26217	0.02753	0.40328
215_28	AGAAACAAGATTTTAAAGTCAAGAACTACAAAGATCAAGATTACACAAGA	End	random	0.30594	0.33561	0.26708
216_0	CTACTAGTGATATAACGCACAGACGCTTTAACGCCCGGTGGGACCTACA	Start	random	-1.64610	-2.57287	-2.11934
217_11	CTACAAGTGATATAAGCAAAGACTATTTAAACGCAAGATGAGACCTACA	Mid	random	-0.35716	-0.59576	-0.99728
218_22	GTACAAAACCTATATAAACCAAGACTAAATAAAGCTCAAGACAAGACTACA	End	random	0.42223	0.39074	0.23765
219_0	CTCTCACGTTCCACCTAGGAGTGTCAAGGCTAAATCATACATTTTGTGA	Start	random	-2.62251	-2.48912	-3.03554
220_14	TCCTCAAGTTCCACCTACAAGAATCAAGATTCAATTATAAATTATGAGA	Mid	random	0.09399	-0.22752	-0.55572
221_27	TCCGCAAGTTACTACAACAAGAATCAAGATTCAAGTATATACTATTAAAG	End	random	0.16198	-0.58687	-0.26213
222_0	CTGAAGTCCGCCAGTTTACCTTACGATGCTTCCGAAGTTCGGCCGAAGA	Start	random	-1.95382	-2.57769	-2.76005
223_11	CTGAAGTACGCAAGTACATACTTACTACTTACGAACTTCTACACAAGA	Mid	random	-0.51542	-0.53148	-0.93517
224_21	CTGAACTACTAACTACATACATACTATATATACAAGAAGACTACACAAGA	End	random	-1.24575	-1.67748	-1.36944
225_0	CTGGCCAATCCACGACTGTGATCCGAACCCAAGGTAATTGTAGCTTACG	Start	random	-2.44378	-2.71879	-2.98765
226_12	AAGGCCAAGACTACGACTGTGATCCGAACCAAGATAATTACAAGTCAAG	Mid	random	-0.45901	-1.06439	-1.00112
227_23	AAGGCCAAGACTACTACTAAGATTACAAGCAAGAAAATTACAAGACAAG	End	random	0.32706	0.01548	0.21240
228_0	GAACAGCATTTTTCCACCAACCTAAACACCACCTTAAGGGCATATCGCGT	Start	random	-0.79596	-0.46349	1.54310
229_15	GTACAGCATTTTTCTACAAGATATATACTACTATAAGAGCAAATCAAGA	Mid	random	0.22776	-0.19152	-0.28476
230_29	CTACAGCTCTATCCCTACAAGATTTTTACTACTACAAGAGCAGTACAAGA	End	random	0.11828	0.10132	0.07988
231_0	GAATATAGTCTAGGTAAGAGAGGCGAGTGGTAACGGTACCAGGTATTTA	Start	random	-1.55985	-1.87020	-2.47732
232_14	AAACTATATAATAAGTAAGAGACATGAGTGTTACGGTATCAAGTATACA	Mid	random	0.24680	-0.02628	0.14333
233_28	AGATTATATAAACTATATAAAACATGAGTGATTACGCTATCAAGTATAGA	End	random	-0.55898	-0.39204	-0.97023
234_0	GACAACCCGAATCATACGCAACGTCGGCCTCAATTACGGCTAGAGACGC	Start	random	-3.29921	-3.78434	-3.57474
235_11	GTCAACCCGAATTATATACAAAAGTCGGCCTCAATTACTACTACACAAGA	Mid	random	0.36215	0.20370	0.69913
236_22	GTCAAAGCTATTTATATACAAGAAACATCCACAAGTACTACTACACAAGA	End	random	0.12216	0.12307	0.04487
237_0	GACCTGCTTGTAACAAACGGTTCGACGCTTAGGTTTCGTAACCTGTAA	Start	random	-3.29224	-3.64604	-3.85216
238_11	GACCTACTTATACAAAACAGTTCTACTACTAAGATTACGTAACCTACAA	Mid	random	0.19280	-0.15568	-0.42414
239_22	GTCCTACAAATACAAGACAAGACTACTACTAAGATTATATAAACTACTA	End	random	0.11465	-0.18304	-0.36047
240_0	GATAGCGGAGGAAGACTGTGCCCGTATTCAGACTTCCGTGTCAAGCAGT	Start	random	-2.03077	-2.34382	-2.47891
241_12	GATACAAGATGAAGACTGTACCTGTATACAAGACTACGAGTCAAGAATT	Mid	random	-0.12700	-0.22592	-0.06968
242_23	TATACAAGATGAAGACTACAGCTAACTACAAGAATTACAAGACAAGAATC	End	random	0.26474	-0.17274	-0.09393
243_0	GATGCTCCATTTCTTTTATGCACGACAGGGGCGAGCGGAGGGATGAGT	Start	random	-3.80099	-4.16120	-4.10907
244_16	TAAGCTACATACATATATATACAAGACAAGAGTCAAGCGGAGCGATGACT	Mid	random	-1.17930	-1.06336	-2.00027
245_32	TAAGCTACATACATATATATAATAACAAGACACAAGAAACAAGATTAAG	End	random	-0.08242	-0.64727	-0.58529
246_0	GCACCCCGATGCGTTTTGTGACCTTATTCGTTAGAGGTGGAGTGCCTACT	Start	random	-2.83928	-2.74468	-3.06197
247_15	GTCACCGATCCGATTTATGACTATAAACTATAAAGGTGAAGTCACTACA	Mid	random	-0.17463	-0.10176	0.02680
248_30	TTATACAAGACAATCAATGACTATAAACTATAAAGGTCAAGAACTATG	End	random	0.27584	0.88015	-0.00305
249_0	GCATGTTCAATTAATTTGCCGGAACGAACGCTGCGAGACCATGACAAGT	Start	random	-2.98698	-3.11910	-3.80477
250_14	GCAAGTTCAATTAATTTACAAGCAAGACTACTACAAGACAATGACAAGT	Mid	random	0.06622	0.03069	0.24400
251_28	AGAAAAGTCAAGATTATACAAGCAAGACTACTACAAGACTATGACGAGT	End	random	0.21220	0.20121	-0.18501
252_0	GCATTGCGGTCTCCCATCATAGAAGTACGAAGTCTCCGTGGCCCTCGTC	Start	random	-1.84981	-2.29477	-2.60719
253_12	GCATTCCGGTCTCCCATCAAAGAACTACAAAGACTACAAATCCTACGTT	Mid	random	-0.18868	-0.10760	-0.07586
254_24	AGAATCAAGTATCACTACACAAGAAGTACAAGACTACAAATCTACATT	End	random	0.26565	-0.11826	0.09857
255_0	GCCCCTTGGATTATTTCTGACGCTTGAGCGCGCAAGATCGATACCTCA	Start	random	-2.94979	-3.57917	-4.06023
256_13	GCCCCTTGAATTATTTATTAATACTAGAACCGTCAAGAAATATATACAACA	Mid	random	0.38173	0.10835	-0.16343
257_26	GTCCCTACAAAAATTATTTACTATTAATAAATATCAAGATTATATACAAGA	End	random	0.11485	0.18554	0.11470
258_0	GGCTAACGATAGGAGTACTTGAGGTGGGACCGGTTGTTACTGTACGACC	Start	random	-3.50925	-2.98330	-4.02610
259_14	GGGTAAACGACAAGAGTACTCAAGATGAGCAAGTGGTTACTACACAAGA	Mid	random	0.52628	0.44965	0.30623
260_27	GGGTAAACGACAAGAAATACAAGATTACTACAAAAGACTACTACACAAGA	End	random	0.95711	0.63972	0.63293
261_0	GGAACCTGCGCATCTCCATACTGGACGTACGCTATCAATGGAACGTCGC	Start	random	-2.78581	-3.02363	-3.75859
262_20	AGAAACTATATAAACTACATATTTAACGTACATTAAATAATGAAAAGTCCC	Mid	random	-0.86434	-1.19865	-1.52947
263_39	AGAAACTATATAAACTATATATTTTATATATAAACTATAAAAACTACG	End	random	-1.99419	-2.56568	-3.35244
264_0	GGATAAGGAAACCCACAACGGAAGTGGCGTAAACGATACCTACCTCTC	Start	random	-3.36896	-3.54005	-4.01265
265_13	AGACAAGAAAACTACAAGAGACTTATCGTACAAAGATACCTACCTACTA	Mid	random	-0.79298	-1.30563	-1.29238
266_26	AGACAAGACAAGTATATAAGAAATATACTACAATTATACAAGACTACTA	End	random	0.26365	-0.07849	-0.17161
267_0	TACCGATCGGTACTAGAGGGATAGCTGGTCCAATTGCGTACCTCTGTAA	Start	random	-1.59463	-0.64242	-2.23803

268_11	TACAGATCAGTACTAGAGAGATGGCTGATCCAAGTACGTACTACTATAAA	Mid	random	-0.24029	-0.76554	-0.75949
269_22	TACAGATCAGTACAAGAAAGATGTTTAAAGTCAAGAACTACTACTATAAA	End	random	0.30119	0.12169	0.04459
270_0	TCACTTTCCTTCTGGCGTCTTTGTGCATTTCTGTTGGTCTAACAGAGC	Start	random	-3.22918	-3.17221	-3.80322
271_13	TTACTTTACTACAAGCGTCTTTGTGCATTAATTTTAACTAAGACAGC	Mid	random	-0.06508	0.07253	-0.26420
272_26	TTATATAACTACAAGACTACTTATATACAAACTATATAAACTAAGACAGC	End	random	-1.74594	-3.45686	-3.03951
273_0	TCCGAAGCAAGAACTGTATACCGCCTAATCTTTTCGTCAATCAGGGCCAG	Start	random	-0.84773	-1.60938	-1.69631
274_12	TCCGAAGCAAGAAAAAGTATATAGTCTAATATTTACTACAATCAAGACAAG	Mid	random	-0.20831	-0.51055	-1.08025
275_23	TACAAAGCAAGCAAACTATATAAACTACAAGATACTACAAACAAGACAAG	End	random	0.13694	0.23825	0.10869
276_0	TCTGAACGGAGCTCTCATCTTTTCGCGGATATTTAAAGTCCACACCTTCGC	Start	random	-3.23401	-3.65063	-4.34839
277_14	TCCGAACGGAGCACTCATTTTACGAAGATATATAAAATCTACAAATTAAG	Mid	random	0.02549	-0.05907	-0.26800
278_28	TCCTCAAGAACTACAAGACTACGAAGATATATAAAATTTACAAAGCAAG	End	random	0.09252	-0.39337	-0.26015
279_0	TGATGGCGCCCAATCATCCCGAGGTTTGGTGACCTTTCTGTGCGATTCC	Start	random	-3.50336	-4.29255	-4.27594
280_11	TGATGACGTCTGAATCATCGCAAGCTATGAAGTCCTTTCCTGTCGATTCC	Mid	random	-1.12969	0.01575	-1.03143
281_22	TGATGACTTCTGATACAGCGCAAGCCATGAGATATTTACCTGTCGGTTCC	End	random	-2.00816	-2.71294	-2.18086
282_0	TGTGCATATCCGTACTCCTAAAACCTCTTAACGCCATTTAGTACCAAGGT	Start	random	-2.07317	-2.73897	-3.35359
283_10	AGTACATATCCGTACTACTAAAACTATTAAGCTATTTACTACAAGAT	Mid	random	0.20747	-0.04700	-0.00614
284_19	AGTATATAAGACTACTACTATAAACTATATAAACTATTTACTACAAGAT	End	random	-2.03910	-2.60069	-3.84802
285_0	TGTTGGCCCTTAGGGACTGCCAAAAGCGTAGAGACGCATCCCGGCAAGCA	Start	random	-2.69952	-3.56982	-3.52019
286_16	TGTTAGCCCTTAGAGACAGTACAAGACTACAAAGACATACAGTCAAGAA	Mid	random	-0.20026	-0.06187	-0.49716
287_31	AGAAATTGAGTCAAGATTACTACAAGACTACAAAGACATACATACAAGAA	End	random	0.24605	-0.22065	-0.30272
288_0	TTAAGGGGTTGGCAACCTGCTTAGACGTGACAACCTAGCCGAAGAGCGGT	Start	random	-3.33551	-3.58091	-3.65122
289_14	TTACAAAGTCAGCAAACCTACTTATAAGTGACTCTTAGTCGAAGAGAGAT	Mid	random	0.15463	-0.12721	-0.15879
290_27	TTACAAAGTCAGCAAACCTACATACAAGAACTATATAAAACAAGCAAGAT	End	random	-0.16078	-0.04862	-0.50180
291_0	TTCACTGGTGGGTCTTACCGCTCCCGACGATATAACCAATCCAATTAGT	Start	random	-2.74330	-3.21070	-3.58196
292_15	GTCACCTGGTCAAGTCTACAAATCAAGACTATATAAACTATTTAACTACT	Mid	random	0.07029	-0.17902	-0.36998
293_30	GTCAAAAGACTACTACTACAAAGCAAGATTATATAAACTATATATAAAG	End	random	-1.17543	-1.68564	-2.41731
294_0	TTGCCCCACGCTCACAGATCCGACACACACTTATCCAAGATATCCCCAG	Start	random	-1.89702	-2.26672	-2.62766
295_12	TAGCCCCAAGATTACAGATCAGATACATACTTATACAAGATATATACAAG	Mid	random	-1.33854	-1.28897	-2.00107
296_24	AAGACTCAAGATTATATACAAGTTATATACTTATATAAACTATATACAAG	End	random	-3.26998	-3.36042	-4.96042
297_0	TTTGGCGATCTCCGAACACTGCCATAGCCCTTGAGCTAACGTCAAT	Start	random	-2.61846	-2.92192	-3.43287
298_16	TTTAGCTATATAACTACAAAGCCATACAAGAACTACAGCTAAAGTCAAG	Mid	random	0.68914	0.31099	0.51630
299_32	AGAAGCTATATAACTACAAAAATTATATAAGAACTACAAAGCAAGACAAG	End	random	2.07597	3.14364	4.11960