

Table S2: List of all peptides generated in the course of the evolutionary process of optimization for G_{M1}-binding. All peptides were synthesized on cellulose membranes (200 peptides each generation) and analyzed for target binding with a fluorophore-labeled G_{M1}-derivative. Fitness values were assigned to each peptide according to fluorescence signals obtained in this binding assay. Peptides are listed from the top-ranked peptide (1) to the peptide sequence displaying the lowest binding affinity for the G_{M1} probe (200) for each optimization cycle (“generation”). The top candidates of each generation which were selected as parent peptides for the next generation are written in boldface, these peptides (designated “lead peptides”) were synthesized again onto the cellulose membrane carrying the filial peptides to enable standardization. Fitness values for all peptides are given, both measured fluorescence intensities (x; arbitrary units) and values standardized across all generations (c) for direct comparison of peptides from different generations.

L-peptide sequences

	Generation 1a	x	c	Generation 1b	x	c	Generation 2	x	c	Generation3a	x	c
1	GWYKGTAFWQLRQPG	61.99	2.18	YPRHRTGIYICNVRF	71.89	2.52	GWWEKLCVWGRINMHM	181.90	5.85	GWWEKLCVWGRQNQPA	252.14	9.61
2	DFRRLKGAFWQSIGRF	59.08	2.07	DPMQRTGILFISYRF	67.81	2.38	MPRHRDTEVWAVSKLG	160.27	5.15	GWWEKLCVWDFCERK	217.07	8.27
3	AEVNWKGAFWQLRQPA	55.82	1.96	LVRHRLRGLKSIYRF	64.09	2.25	AEVNWKGAFWDFIERK	116.19	3.74	GWWEKLCVWGRINMHM	188.10	7.17
4	VWRLLKELWVHVKKLG	54.15	1.90	MPRHRDTGVLSIGRF	63.98	2.25	AKVERLCVWVWNIHGA	113.47	3.65	VWRELLKAWGRINMHM	186.03	7.09
5	AKVEKLCVWVSVKKG	52.95	1.86	LGYHRATLNDFIGRK	63.02	2.21	LDRAYAKWCLWMTDF	112.99	3.63	GWWEKLCVWGRINMHG	175.18	6.67
6	PQIAMFCFAWQLRQPA	51.37	1.80	GKTHRATRLDYIGRY	54.91	1.93	DFQRWKGAFWQLRQPA	108.95	3.50	GWWEKLCVWGRINMHM	170.99	6.51
7	AKVEKLCFAWQLRQPA	50.26	1.76	LPTFFYTGFLCSIGDC	54.70	1.92	VWRLLKKAFAWQLRQPG	100.93	3.24	VWWEKLCVWGRINMHM	161.66	6.16
8	DFRRLKVEVHVHVKKLG	48.30	1.70	LPRLRDFVILFISIERY	53.94	1.89	VWRLLKELWVHVKKLG	98.12	3.15	GWWEKLCVWGRQNQSN	158.72	6.05
9	GWYKGTGILVLIGMF	47.66	1.67	LRFACRTYILDVIGRC	53.68	1.88	KKFFYYTGFGLSIGDC	97.21	3.13	GWWEKLCVWGRINQPA	142.42	5.43
10	LPRVKNRTGILAFIGRF	46.91	1.65	LPRQRDTGILVVIYRQ	51.40	1.80	EKVERLGAFWVSGIGRF	96.06	3.09	AEVNWKGAFWCSRLG	142.02	5.41
11	GWYKGTARFVNIHGA	45.44	1.59	LPRHDYTMILLTYGRF	50.36	1.77	DWFLKLCVWVSVKKG	93.96	3.02	GWWEKLCVWGRILIGDC	134.85	5.14
12	DFRRLPKAFWQLYHNT	43.47	1.53	LTRRNLTGILSSTYRF	46.19	1.62	TINKAWTLNDFDIFGRK	89.12	2.87	AEVHRDSEVWVAVSKLG	133.99	5.11
13	LWYQGRARFVSAHPA	42.21	1.48	DFRHRNFVQGLIFRF	45.26	1.59	SEVRWKGAFWQLRWDN	87.58	2.82	GWWEYLCSVWVNIHMRK	131.44	5.01
14	GALSETYSLWTEYNGA	41.54	1.46	KLRVRDFVILDGYGRF	43.72	1.53	GWVHRTYGIYVNVRF	79.03	2.54	AEVNWKGAWVWNIHGA	125.98	4.80
15	EKVEKLCVWGRINMHM	40.29	1.41	RVRHAKTLLYSIGRF	43.67	1.53	LPKFYTGFLCSIKLG	78.33	2.52	RKFFYYTGFLGVKRLG	125.50	4.78
16	GALSETYSFINRLLEPA	40.22	1.41	KKFTRDTGILKSIGFF	42.59	1.49	GWYKGSFAWQVIGRC	76.42	2.46	DFQRWKGAFWVWNIHGA	124.94	4.76
17	GALCVYYSFMETHNT	39.37	1.38	LPRHRSTLQVIGIRFF	41.71	1.46	DFERLKGAFWVWFDWN	74.18	2.38	DFQRWKGAFWVWFDWN	122.98	4.69
18	VWRLLFPFNSRLLSA	39.32	1.38	LPYHRDTKIAFFGGKF	39.23	1.38	LPVNWKGAFWQLRQEA	73.95	2.38	MPRHRDTEVWAVSKLG	115.57	4.40
19	YEVVRWTHEIKVKGFR	38.68	1.36	YEVNWTHEIKVKGQN	37.41	1.31	AFVWMLCVWTEYNGA	71.48	2.30	LDRHRDTEVWAVSKLG	114.21	4.35
20	GALSETYSFIKGYHNT	38.56	1.35	GALSETYSFIKEYHNT	36.93	1.30	AKVEKACVWVSVKKG	71.16	2.29	GWKFYLCVWGRINMLG	114.00	4.34
21	GWVNWMTHEIKVKGQN	38.54	1.35	LERHRMTGKLFIVYRF	36.92	1.30	DFRRLKGAIFLSYIRF	69.56	2.24	GWWEKLCVWGRINMLG	111.04	4.23
22	GALSETSAFWQLRQPA	38.30	1.34	LPRHRDTGFVYSIGAF	36.41	1.28	GDRAYGWCLWVWFDWN	69.34	2.23	AKVEKLCVWVWNIHDC	110.05	4.19
23	LWRRLPDAFWQLRQPA	37.84	1.33	LAFFRDTGIRDSIGRR	36.08	1.27	GWYKATAFAYCNVAF	69.18	2.22	GWVWYKCVWVWNIHGA	109.99	4.19
24	AEPQIAGAFWQLRQPA	37.66	1.32	LYRHVFTVALDAIGLF	35.91	1.26	LWVYEGCAFWQLRQRA	68.53	2.20	SEVRWKGAFWVAVSKLG	108.73	4.14
25	FWRRLLAPFPIKEYHNV	37.15	1.30	MARHRVYAGLFDISGMR	33.87	1.19	LPTFRLEGILKSIYRF	67.70	2.18	SERAKAKWCLWMTDFC	107.37	4.09
26	GWVSETCSFIKEYHNT	37.15	1.30	LPRHSDTGILSGILVF	30.41	1.07	ERFARLCVWVSVKKG	67.64	2.17	DFQRWAKWCLWMTDFDR	107.27	4.09
27	GDWVWVWVHVKKLG	37.13	1.30	LPGMRLTKLISYAGRF	29.98	1.05	GWQYKGTALLDYIGRY	67.25	2.16	GWWEKLCVWGRVWVWDC	107.24	4.09
28	GACVWVWVHVKKLG	37.13	1.30	LTRHRDTGTYQTLISLF	29.96	1.05	LVFHRRLGILFFIYRF	67.25	2.16	GWWEKLCVWVSGIGRF	104.88	4.00
29	AKVEKCGGLDSIGRF	36.33	1.28	CPRHEDGYILRSYGRF	29.23	1.03	GKTHRACVWVSVKKG	66.35	2.13	GWQRWKGAFWQLRQPA	104.73	3.99
30	GALSETYSFIKSIYGRF	36.04	1.27	FGSRRTTGILKSIGRM	29.01	1.02	AYVNWNTGILAFIGRF	64.57	2.08	AWDLLKAFWQLRQPG	104.64	3.99
31	YELNWTYSFIKEYHNT	35.29	1.24	LRRKRSTGKTDLSILRF	28.45	1.00	GWYKGTAFWQLTYTF	62.00	1.99	REVHRDTEVWAVSKLG	103.73	3.95
32	YEVQWTHEIKVKGQF	33.34	1.17	LUVSDCTAIRRSIGRF	28.42	1.00	VWRLLGTAFAWQDRQTF	60.19	1.93	GWWEKLSAFWQVIGRC	102.63	3.91
33	GWYKGRARVMSIGRK	33.00	1.16	LGRRFDTLLLESILRM	27.98	0.98	GWYKGDGILVLIYRF	59.96	1.93	MPRHNWTLNDFDIFGRK	99.66	3.80
34	GALSETYSFIRLNYGM	31.33	1.10	DFRRLPGAFAWQLRQPA	27.94	0.98	YPRRNLGTILYATYRF	59.07	1.90	AEVNWKGAFWDFIERK	99.51	3.79
35	LALSETYSFIKEYHNT	31.15	1.09	FPRHRDYGILDSIGFR	27.49	0.96	LDRAYAKWCLWMEWRF	59.03	1.90	AKVEKLCVWVWNIHGA	98.99	3.77
36	CHCSILKEVSNRLKPA	30.87	1.08	LLRHRDTVILLKIDRF	26.64	0.93	MPRLRDFVIRFSIERY	57.94	1.86	GWWEKLCVWVWVSKLG	98.67	3.76
37	DFRRLPGAFAWVEYHNT	30.18	1.06	LFRHRDTKLLDSIGRK	25.82	0.91	RVRHATYGIYICNVRF	57.93	1.86	LPKFYAKWCLWCFCTCF	98.42	3.75
38	YEVNWTHEIKVIGRF	30.09	1.06	LPRHRTKTLILDSIGLF	25.53	0.90	GWVHRNFYQGLIFRF	56.34	1.81	DFGRLLKGAFAWVMIERK	97.15	3.70
39	VWRLLFPGARRGLPA	29.95	1.05	LLRHRRTGILKSIYMM	25.16	0.88	VWRLLDGFGLCSIGDC	55.75	1.79	DFWEKLCVWVWVNIHMF	96.06	3.66
40	PQIAMFCGRLNMHNG	29.49	1.04	IMAHRRGGIYDSIGRF	24.59	0.86	AKVEKLCVWVWVWVIGRF	55.33	1.78	SERHRDTEVWAVSKLG	95.05	3.62
41	VWVYKGRARVMSAVAA	29.24	1.03	LVRDKKTGILDQIRRK	24.59	0.86	YDRAYAKWCFWVWFDWN	55.21	1.77	VWWEKLCVWVWVWVSHM	92.78	3.53
42	LPRHRDTGIVWNIHGA	29.08	1.02	SERHRDTGILFTILRQ	24.29	0.85	LVKHRLRGLFISYIRF	55.18	1.77	MPRHRTYGIYVNVRF	92.76	3.53
43	AEPQIAMFLLDSIGRF	28.94	1.02	LPRFTSTGFCCKSNGKL	23.84	0.84	DFRRLKVEVHQLRQPA	54.97	1.77	MVWVWKGAFWDFIERK	91.49	3.49
44	GWYKPGAFAWQLRQPA	28.54	1.00	LPEHRVTLILDKVFRLL	23.55	0.83	LGVEKLCFAWQLRQPA	54.93	1.77	DFRHRDTEVWAVSKLG	90.75	3.46
45	AALSETYSFIKEYHNT	28.14	0.99	KYSTRTDKILDRSGFF	23.00	0.81	LVRHRLFGFLCSIGDC	53.70	1.73	AEVNWKGACVWVWMTDF	89.56	3.41
46	GACVWVWVHVKKLG	27.85	0.98	LPYHSQTGVLFKICQK	22.77	0.80	AKVFKLCFAWQLRQPF	53.52	1.72	DWFLKLCVWGRINLHSM	88.49	3.37
47	ASDWLPGAFAWQLRQPA	27.64	0.97	LQRHRSCGILYSIGQM	22.71	0.80	GWVYMTGTGILFISIMRF	53.29	1.71	GWWEKLCVWVWVWVWVNIH	87.41	3.33
48	YFRRLPCAFAWQLRQPA	27.50	0.97	LPRHRRESGIQTLITRF	22.19	0.78	YPRHYAKWCLWVWVWDE	52.49	1.69	LDRAGAKWCLWVWMTDF	86.89	3.31
49	PQIAMFCGRLNMHNA	27.30	0.96	NPCHRDGLLDTFGR	20.93	0.73	YPRHRTYGIYICNVRF	52.45	1.69	GGWLLKAFWQLRQPG	86.53	3.30
50	ASCSILKEVWVHVKKRG	27.23	0.96	DVPRRDYDGLLVQIGRF	20.42	0.72	ARFACRFYILDVINRC	51.21	1.65	GEVWVWKGAFWQLRWDN	86.20	3.28
51	PQIAMFCGRLRQPD	27.19	0.95	LEQRDQGLDSIRRS	20.25	0.71	AKRRLTGAFWQSIGRF	50.23	1.61	SEVRWKGAFWQLKLG	86.16	3.28
52	GAKILKEVWVHVKKLG	26.94	0.95	LPRHSEMGILSISYGRY	20.24	0.71	SALSETYSFINRLMHM	49.84	1.60	DFQRWKGAFWQLQPA	85.88	3.27
53	AEPQIAMFLLDSIGRF	26.76	0.94	LFRHGDGTGISDSKGRF	20.21	0.71	DPRHRQFVQGYIFRF	49.06	1.58	VWRLLKELWVHVKKLG	85.77	3.27
54	GALSETYSFIKEYHNT	26.53	0.93	MPRHRDTGNLNLILRS	20.06	0.70	GWVYNGTAFWQLRQGG	47.54	1.53	MPRHRDTEVWAVSKLG	84.49	3.22
55	YEVNWTHEIKVKGPA	25.96	0.91	LPRHRDTGILDSIGRF	19.82	0.70	MPRHRDTGYLVSIYGRF	47.29	1.52	GWWEKAVVWVSVKKG	84.28	3.21

56	DFRRLPGAFAWVSAVAA	25.53	0.90	LPRQARTTIEDSIRYF	19.69	0.69	DWYKGTARAWNIHGA	47.26	1.52	SWEKLCVWGRNLNMHM	83.93	3.20
57	AKVEKLCVWNNKTVHF	25.27	0.89	LLRRRDFAILQSIQCF	19.56	0.69	YPRHRTYGIYYCNVRF	47.07	1.51	DWFLKLCVWWSRKYLA	82.94	3.16
58	YEKNWKTHEIKVKLYK	24.95	0.88	LPEHTDTYIFNSIGNR	19.48	0.68	AKVEKCAFVQVRFVRF	46.77	1.50	LPVEKLTAFWGSIGRF	82.74	3.15
59	AKVEKLCVWNNKISGRF	24.79	0.87	LPLVRFDFGLVDSIQRF	19.39	0.68	GWRLLEKELCHVKKLG	46.46	1.49	AKVFKECVWGRNLNMHM	82.09	3.13
60	PQIFMLCVWNNKTPHA	24.78	0.87	LKRHRDTAILMSKCRF	19.03	0.67	PQIAMFCAFWQQLLPA	45.94	1.48	LDRKLCVWVWNNQHGA	81.87	3.12
61	HHCSIRKVTWVHVKKLA	24.75	0.87	LPRHRDCKVDRIGRL	19.01	0.67	GRTHRATRILFISIERY	45.92	1.48	AFVEKLGAFWGSIGRF	81.04	3.09
62	VWRLMPGAFAWQLRQPA	24.70	0.87	LMGFRDTGILLSIMEV	18.01	0.63	GWHRSTLCOYGRIFRF	45.73	1.47	GWVEKLCVWNAVSTLG	80.88	3.08
63	EWVWYDEMLTWNHIGA	23.76	0.83	LKRHKDQGLRAIGMF	17.09	0.60	PQMRKLGAFWQSIGRF	45.28	1.46	AEVNWKGAFWDFIERK	80.79	3.08
64	DFRRLPGAFAWQLRQPA	23.49	0.82	LPRHDDTVFLDSTRFF	17.07	0.60	YPRHRTYGIYYCNVRF	45.10	1.45	LDRAYFKWCLWMTFMG	80.32	3.06
65	VWRLLPAPPFNRLLSA	23.45	0.82	LPAVRDVTILNSKGRF	16.98	0.60	DPMQRGTGILAFIGRF	44.81	1.44	AEVNWKGAFWVSKLKG	79.88	3.04
66	DFRRLPGAFAWQLRQPA	22.94	0.81	LQLERDGGQLLSIGRF	16.81	0.59	LVHRRLGILKLSIFRF	44.02	1.42	LPEFYTTGFLCRYKLG	79.22	3.02
67	ASDWRDTGILLSIGRF	22.92	0.80	LSRHGNAGILDSIGKF	16.45	0.58	LPMQRGDGILFSIYRF	43.76	1.41	KKMFYTTGFLGSIKLG	78.60	2.99
68	VPRHRDTGILLSIGRF	22.92	0.80	ADPHRDTDLIDYCYFF	14.98	0.53	YKSEKCAFWQLRQPA	43.30	1.39	KKFFYTTGFLGNSHGA	77.83	2.97
69	GKWKYGRARFPLNMHM	22.70	0.80	KTRARDTSLDCIGYF	14.90	0.52	LVHRRLGILDIYGRY	43.29	1.39	TMNKAWTLNDFDIFGRF	76.98	2.93
70	GKRLKCTWINDGPHA	22.49	0.79	LPRRRDTGSLDNRGRM	14.89	0.52	TEVNWKGAFWELRQPA	42.56	1.37	KKFFYTTGFLGSIQPA	76.75	2.92
71	DFRRNPYSFIKEYHNT	22.45	0.79	LPEHSDGGIVFSFERM	14.88	0.52	KLRVDATRLLDYIGRY	42.44	1.36	GWVEKLSVWVKLNQEA	76.43	2.91
72	LPRHRDTCGLNMHMNS	22.40	0.79	LPRRRFDVTCDSIGRF	14.74	0.52	PQVEKCAFWQLRQPA	42.26	1.36	AKQRKAAFWLLRQPA	75.28	2.87
73	GWYKAPFPNRLLLPG	22.30	0.78	LPLHMDFGQLTSLGRF	14.05	0.49	YPRHRTYGIWQLYHNT	42.21	1.36	LWRLLEKLVWGRLSMHM	74.77	2.85
74	YEVNWKTHRLNMHMNV	22.29	0.78	LTRHRQEGILVSDIDL	13.80	0.48	LPRLYDFVILFISIERF	42.07	1.35	KKFFYTTGFLRENHMG	73.87	2.81
75	VHCIDILKEVWVHVKKLC	22.14	0.78	RVRHFDTGILQSIERL	13.72	0.48	GAMQRYTGIIGFSIYRF	42.06	1.35	TINKAWTLNDFDIFGRK	73.28	2.79
76	PQIALFCGRNLVHIGA	22.01	0.77	LERHRDTAILLSIGCF	13.66	0.48	DPMQRGTGILFSIYRF	41.92	1.35	MPRHRDTEFWAVSKLG	72.24	2.75
77	HHCSILKSFIEEYVNT	21.85	0.77	LPRHKVTRNLDSNGRG	13.58	0.48	LPRHDYTMILLTYFRF	41.92	1.35	MPRHRLGAFWGSIGRF	70.47	2.68
78	KWYKGRARFVSAVAA	21.70	0.76	RPGAGDTGIDKIGRF	13.40	0.47	AKVTKLCAFWQLRQPA	41.77	1.34	LDRAKLCLWVWVSKLKG	70.42	2.68
79	AKVEKLEMLTWNHIGA	21.64	0.76	EPHRHDFAILDVICAF	13.30	0.47	AEVNWCGLIYQIGRF	41.14	1.32	GWWHRTYGIYYVNVLR	70.21	2.67
80	LPRHRAMFCGRNLVHMH	21.46	0.75	LPLHRDVGILLYNGSF	12.78	0.45	AEVWKFMIILFSIERY	41.11	1.32	VWRLLEKELGRLNMKM	69.95	2.66
81	LPRSEYYSFIKEYHNT	21.45	0.75	LPHDHTGILLYYGRE	12.75	0.45	MPRHRDTGYLVSLIRF	41.01	1.32	VWRLLEKELWVSKLKG	69.61	2.65
82	AEPQIAMFCGRNLNMF	21.32	0.75	NPRVRDTGLSSIGLCL	12.68	0.45	YPRHRTYGIYYCNVAF	40.98	1.32	DFQSWKGAFAWQLRQCF	69.19	2.64
83	DFRRGPEAFWQLRPHA	21.19	0.74	LPGHRETGILMCMNRK	12.51	0.44	LTRENLTGNLCFTYQF	40.71	1.31	MPRRLKQAFWVWVWVND	68.87	2.62
84	QFCRLPGAFAWQLTPHA	20.86	0.73	SNRKRFTGINDSIGSF	12.49	0.44	LRVACRTGILAFIYGRF	40.60	1.31	LPEFYTKGAFAWQLRQPA	68.73	2.62
85	SPRHRDTGILLSIGRF	20.77	0.73	LPRHRFTGNLSDSLRF	12.40	0.44	EPHRHDTGYLVSLIRF	40.18	1.29	MPSHRDCQWVWNIHGA	68.63	2.61
86	LPRHRDTGILLSIGRF	20.76	0.73	PQIAMFCGRNLNMHMNV	12.29	0.43	LVHRRLGILKLSIFRC	39.55	1.27	LDRAYAKWCLRLNLMH	67.83	2.58
87	DFRRWKTHERKVKQGN	20.46	0.72	LQSRHDTGILASERYF	12.22	0.43	LVRRLKRAFVQSIGRF	39.51	1.27	GWYKGSFAWQVIGRF	67.79	2.58
88	GALSETYSFIKVKKLG	20.39	0.72	LYRHLQDQINDSIGRK	12.09	0.42	LTRMYATLILYSIGRF	38.46	1.24	GWYAYAKWCLWMTDF	67.77	2.58
89	ASDRLPRVFWQLRQPA	20.38	0.72	LNRMRDLGCLBGRNS	12.00	0.42	LKRAYAKVILFSIYRF	38.37	1.23	LPRYTYTGLCVSKLKG	67.57	2.57
90	RKVEKLCVWNNKISGRF	20.28	0.71	LPRRRMDGLSDSIRVA	11.82	0.41	LRFACTYILLDVIGRG	38.37	1.23	VKVEKLCVWVWVSKLKG	66.76	2.54
91	GYWYKGRARFVLAVA	20.15	0.71	VPRHRQFVILDSQGNF	11.80	0.41	LYGHRATLNPAFIFGRF	38.36	1.23	VWRLLEKELWVAVSKLKG	66.64	2.54
92	YHCSILKEVWVHVKKLT	19.97	0.70	LPRHRVTGNTNICRF	11.46	0.40	GWYKQATARPVNIFRF	38.02	1.22	AEVEKACVWVWVSKLKG	66.44	2.53
93	GALSEVYSFIKEKGSN	19.97	0.70	LPRHRMTGYDYSIGRM	10.86	0.38	DFRRTPKLFWWEYVNA	37.86	1.22	GWYKGSFAWQVSKLKG	66.10	2.52
94	LPRHRDTGILLSIGRF	19.72	0.69	FSSRSDSKLDSIGRF	10.52	0.37	PQIAFAFAFTQLIYRQ	37.57	1.21	LFPVNWKGAFPLCSIKLG	66.07	2.52
95	AERHRTDILDSIGRF	19.30	0.68	LPGRAADILDSYGRF	10.40	0.37	DFRRLKTLIYDSIGRF	36.39	1.17	AKVEKLCVWVWVSKLKG	65.25	2.49
96	GALSETYSFIQLRQPA	19.06	0.67	VPVHYDTGILDFITRM	10.24	0.36	RLRVDRFFILKLSIFRF	35.34	1.14	LFPVNWKCVWVWVSKLKG	64.27	2.45
97	DFRQIAMFCGRNLNMF	18.82	0.66	GRMHRDTGIMDVIGRF	10.23	0.36	DFRRLLEKELVLCMF	35.23	1.13	RKVRTYGIYYVNVVRF	63.77	2.43
98	DFRRLPEAFWQLRQPO	18.71	0.66	LPOHRDTGILQSTARR	10.16	0.36	GKTHRATRVQGLIFRF	34.85	1.12	VWRLLEKELWVQLRGRF	63.63	2.42
99	LPRHRDTGILFNNHMNV	18.51	0.65	QPRHYVTCICDSIGRF	10.15	0.36	LVHRRLGILKLSIFRQ	34.79	1.12	GSWYKGSFAWQVIGRC	63.39	2.42
100	DFREKYSFIKEKHNT	18.27	0.64	LPRLFDTGDLVEIGTF	9.86	0.35	LPTHGYTILLTYGRF	34.07	1.10	VWRLLEKELWVAVSKLKG	62.98	2.40
101	DQAMAMFCGRNLNMHMNV	18.17	0.64	LPRARDMGITKSDSRF	9.80	0.34	RWRHDTMILLTYGRF	33.89	1.09	LPEFYTKGFLGALNMHM	62.52	2.38
102	DFRRWKTHERKVKQGN	18.17	0.64	RPRTLDTGGLVDSIGVF	9.37	0.33	DPMQRGTGILFNIYRF	33.64	1.08	VWRLLEKELWVLEWVND	61.86	2.36
103	DFTRLPGAFAWQLRQPM	17.19	0.60	LNFHRDSEQLDSIFGRF	9.25	0.32	VWRHRATLNPFICIGRK	33.30	1.07	KKFFYTKGFLWMTDF	61.35	2.34
104	HHCSIAKEVWVQLRQPA	16.55	0.58	LPRHRDTMFLDSIMSF	8.89	0.31	DTRRLKTLIYDSIYRF	33.13	1.06	LFPVNWLCVWVWVSKLKG	61.28	2.33
105	PQIAMFCGRNLNKAHPH	16.37	0.57	LSRHMTVGLDSIGRF	8.69	0.30	LPTFYTYTILLDVIGRR	33.09	1.06	GWNEKLCVWGRNLNMHM	60.51	2.31
106	HHCHRDTGILLSIGRF	16.35	0.57	LPRVRDQGILESFGMR	8.23	0.29	GALHYDTGYLVSYGRF	32.54	1.05	EDRAYAKWCLWMTDF	59.81	2.28
107	VWRLLPAPPFNKTPVA	16.29	0.57	VPCHRDTYILDKIRSD	8.18	0.29	DFTHRATVLLDIYGRY	32.46	1.04	AKVEKACVWVWVSKLKG	59.67	2.27
108	HHCSILKEVWVHVKKNV	16.25	0.57	VDCQSDTDFGLDSIGRF	8.17	0.29	DFTHRATVLLDIYHNE	31.95	1.03	LDRAYAGIYYVNVVRF	59.03	2.25
109	DFRQIAMFCGRNLNMF	16.13	0.57	LPHRATRLDMIERA	8.16	0.29	GKRHDYTMILLTYGRF	31.79	1.02	MPRHRDTEIYYVNVVRF	58.51	2.23
110	ASDWDYDEMLTWNHIGS	16.12	0.57	LPRMRDTFIRDSIGKQ	8.11	0.28	LWYQGRAPVPSAPHF	31.45	1.01	LDRAYAKWCLWVVRQPA	58.02	2.21
111	LPRHMFCEGLNMHMNV	15.90	0.56	LDMHRDYGILSDSIVRF	7.90	0.28	GWYKQATARVQLRQPA	31.44	1.01	DEVNWKGAFWVDFIERK	56.96	2.17
112	PQIAMFCGRNLNMHMNV	15.78	0.55	AEPQIAMFCGRNLNMHM	7.69	0.27	YALSETYSFINRLLPF	31.38	1.01	EKFLKLCVWVWVSKLKG	56.69	2.16
113	DFDRIAMFCGRNLNMHM	15.66	0.55	LPGHADDKIGCSIGRF	7.67	0.27	LPRLDYFVWDFIIGRF	30.71	0.99	TINKAWTLWVWVSKLKG	56.68	2.16
114	APRHRDTGILLSIGLFL	15.53	0.55	VPGEDTALSSKGRF	7.50	0.26	YPRHRTYGFILCAIGDC	30.53	0.98	KKFFYTTLNDFDIFGRK	55.92	2.13
115	HHCSILNEVWVHVKKHM	15.06	0.53	LPRHMTNALDAIGRF	7.26	0.25	DPRLRSTLIQYGRIFRF	30.15	0.97	AFVMDLCVWVWNIHGA	55.87	2.13
116	ASDWDYDEMLTWNHIGA	15.04	0.53	CMRHRDTGILMSVRL	7.24	0.25	LPRQVDTGILVVIYGRF	29.94	0.96	VWRLLEKELWVQVVKLKG	55.06	2.10
117	HMDSTNKEGVPVVKLGL	14.88	0.52	LPRRRDTLVLSRGA	7.17	0.25	DPMQRGTGILYSIGRF	29.17	0.94	DKFLKLCVWVQLRWDN	54.31	2.07
118	LGRHRDTGILVHVKKLG	14.68	0.52	LSRQADTALCSIGRL	7.08	0.25	LWYQGRAPVPSAPRC	29.04	0.93	MPSRSDTEVWVAVSKLKG	54.24	2.07
119	ASDWDYDCGRNLNMHMNQ	14.64	0.51	LPRHRDTMMLDLIARL	7.01	0.25	LSYHRATLNDFMIFRF	28.70	0.92	GKWHRTYGIYYNIHFA	53.86	2.05
120	PQIACFCGRNLNMHMHM	14.35	0.50	LPRHRDRGKLDYIGEF	6.88	0.24	LPRQVDTGILVVIYVRF	28.31	0.91	KKFFEKGAFAWVWVND	53.67	2.04
121	PFVCWKTHERKVKQGN	14.31	0.50	LCRGRDEGIVDSAFRT	6.84	0.24	LGRHRTYGIYYCNARF	28.30	0.91	KKFFYTKGFLWVWVSKLKG	53.26	2.03
122	LLRRLPGAFAWQLRQPA	14.26	0.50	MQRRLDTGILDSIGRE	6.78	0.24	DFRDLPKAFWQLKKG	27.96	0.90	LPEFYTTGFLCSRWVND	53.04	2.02
123	YEVNWKTHERKVKQHA	14.12	0.50	LMRHRDGGYILDERGRN	6.61	0.23	LSYHRATLNDFDIFIGA	27.91	0.90	DEQRKGAFAWQLRQPA	52.90	2.02
124	EQIAMFCVWNNKTPHA	14.11	0.50	TPLRHSTITLVDIGSF	6.26	0.22	GWYKQATARLKSIFRF	27.67	0.89	EKVEKTAFAWVDFIARK	52.47	2.00
125	PQIAMFCERLNHMHMNV	13.77	0.48	LPRNMTGYTDSFERF	6.25	0.22	ELRVQDFILDGYGRF	27.61	0.89	RWRLLEKELWVWVSKLKG	51.89	1.98
126	YEVNWKTHERKVKQGN	12.94	0.45	TPRHRDTGCLDSIGDRL	6.23	0.22	LVHRVTLGILKVKKLG	27.48	0.88	DFRQAKGAFWVWVSKLKG	51.22	1.95
127	ASDWRDTEILDSIGRF	12.81	0.45	VNDHRDTGMAYVIGRG	5.46	0.19	DPMQRGTGILFVIGRF	26.97	0.87	EKVKKLGAFWGSIGDN	50.50	1.92
128	AEPQIAMFIFKEYHNT	12.81	0.45	LNRSDRTGILANMRQ	5.15	0.18	LPRRLPKAFVQLYHNT	26.84	0.86	GWYKGSFAWQVIGPT	50.17	1.91
129	CQNRMSCVRLNMHMNV	12.78	0.45	LRRHRETGFLDEAKQF	5.14	0.18	FPRHRNFAFWQLRQPA	26.71	0.86	VWVRLKLCVWVWNIHGA	50.12	1.91
130	VWLSETPFSKEYHNT	12.71	0.45	ACGHDDTGSLSISGRY	5.00	0.18	GALRLLKEVWVWVWVSKLKG	25.32	0.81	DWFLKLCVWVWVSKLKG	49.76	1.90
131	YPRHRDTGILLSIGRF	12.50	0.44	LPTFRDFGDLDSIGSF	4.91	0.17	YPRHRTYGIYVSTQSF	25.31	0.81	EKVEKCCVWGRNLNMHM	49.17	1.87
132	AEPQIDEMLTWNHIVA	12.34	0.43	CPFECDRALDSIGRF	4.90	0.17	MPMQRGTGILDSIYRF	24.42	0.79	TEVNWKFASDYDFIAFK	49.01	1.87
133	PQIAWKTHERKVKQGN	12.13	0.43	RPRQDGTGILKLSICF	4.78	0.17	GRTHRATRLDYIGGK	24.33	0.78	DFQRLKELWVWVSKLKG	48.60	1.85
134	DFRRQKDAFAWVQRQCA	11.41	0.40	LMEVFDTGILDSIGRE	4.55	0.16	GKTHRATGILVVIYTRQ	24.26	0.78	VPEKACVWVWVSKLKG	46.96	1.79
135	GTWYKGRARFVSAVAA	11.27	0.40	GPRHGDGLKKSIGRV	4.45	0.16	LVHRHAPKAFWQLYHNT	23.71	0.76	GWVYKLCGRVNLNMHM	46.85	1.78
136	LPRHRDCGRNLNMHMNV	11.16	0.39	LPKHQGTGIVGSMGRM	4.45	0.16	LTRRNDTGILVSIYGRS	23.51	0.76	LPEFYTKGFLCSIKLKG	46.56	1.77
137	CYVNLMTMHIKVKGFN	10.99	0.39	FPRHKTGGLDYVVGKS	4.45	0.16	YKRLLEKELWVWVSKLKG	23.43	0.75	LDRAYAKWCLWVWVSKLKG	46.27	1.76
138	LPRHRDTGILNLMHM	10.77	0.38	YPOKRDTEGDCSISRF	4.41	0.15	LMRACRTYILLDVIGRC	23.15	0.74	AKVEKLCVWVWVSKLKG	46.01	1.75
139	ASDWDYDEMLTWNHILN	10.58	0.37	KDRHRDVSILDSGGRL	4.37	0.15	LPTFYTYTKGCLCSAPHA	22.84	0.73	GWYKGSFLGCSIKLKG	45.82	1.75
140	ASDWDYDEMLDWNHNV	10.50	0.37	LPHNRDKVRAVSCGQF	4.23	0.15	MPRHVDTRLDYIGRY	22.82	0.73	CINKAWTLNDFDIFRQF	45.81	1.75
141	LPRHR											

152	YFRRTPGASALCQPPA	8.45	0.30	RPHFDTAGLDSTLRF	3.50	0.12	LPRLRDFVILKSIGVF	18.19	0.58	AWWHRTYGIYVNDRF	42.54	1.62
153	GALWYDDMLTWNJAGA	8.42	0.30	LPRCRDQCFLDSSGGF	3.47	0.12	DFRRVLEKVVHVNRY	17.86	0.57	DFQRWKGAFQRLRQPF	41.78	1.59
154	GAKSETYSFKEAVVA	8.41	0.30	LVDHSLTKKLDSECRF	3.31	0.12	KKFTRDTGILRLRQRA	17.64	0.57	TFQRWGLNDFDIQML	39.34	1.50
155	AEPQTAMAFWQSRQPA	8.13	0.29	TPRHRDTMSLDSYQYR	3.30	0.12	GGYHRATLNFQRLLLPA	16.86	0.54	ALVNTYKAFLOCFIRRK	39.25	1.50
156	YSDWYDEMLTWNJIGA	7.91	0.28	LARHLDTGILDKIERT	3.29	0.12	LPRHDYTMILLTIERY	16.66	0.54	GWYNKLCVWGRLNMA	39.14	1.49
157	YEVNWPAGFTQLRQPA	7.89	0.28	QPKHRDTGCLDQLGRT	3.28	0.11	DFMQRGTLLIFMFDNM	16.46	0.53	LQVWMAKAFQQLRQSA	38.74	1.48
158	LPRHRDTGILLDNMHN	7.65	0.27	LPRCLDTGMYSIGCF	3.21	0.11	KDYVRKGAFWWDGYGRA	16.38	0.53	DWFLAWTLNDDFIGRK	36.64	1.40
159	AEPQMFQCGRLNMHMV	7.27	0.26	YQRHDDGILDSICAF	3.15	0.11	GWQYKGTACWQLRQRA	16.31	0.52	EKVEKLGAFWVAVSLG	36.35	1.38
160	SPRHRDTGILDSLLPA	7.23	0.25	LGMERDTGGLDAGGRF	3.05	0.11	KKFDRDTGILKSLIGL	16.23	0.52	LDWEKLCVWRDNMGM	35.44	1.35
161	DFRRLPTEHIEKVKQGN	6.47	0.23	LPRGRATGALDENGKGF	3.04	0.11	LTRRNLEKVVHVNKLG	15.97	0.51	GWEEELTLNDFDIGRK	34.95	1.33
162	LPRLSDTDIYTSGGGRF	6.38	0.22	APRHFMTGNNDSEGRF	2.80	0.10	LGRHRTYGVQYCNVRF	15.73	0.51	LFVVKLCVWTSIGRFR	34.31	1.31
163	MKVMKLCERNKTPPEA	6.21	0.22	NGRCRCTEIDRDIGAF	2.78	0.10	MPREKLCWFQQLRQPA	15.47	0.50	GWWHRTYGIYVNDRF	33.97	1.29
164	LPRHRDTGILDSIHGA	6.20	0.22	LKEHRDTGRLDLDGAF	2.70	0.09	LELRDFVILFSDIEDC	15.45	0.50	MPRHRGSAFWQVSGIC	33.37	1.27
165	DFRRNPGHEIKVKQGN	5.96	0.21	LRRRMDQGNLDSIEFA	2.58	0.09	DLRHRCNVQGLIKLG	15.39	0.49	MPRLLKAFWRLRQPG	32.91	1.25
166	PQIYKGRARFVSAVAM	5.95	0.21	LPYHRDVGFDQTSRFR	2.53	0.09	KLFRDRTGVLVSGGRF	15.10	0.49	MPRHRDTVWARLNMMH	31.78	1.21
167	PSKYDEMELWNIHGA	5.94	0.21	GPREFDTGLLDSNRKN	2.52	0.09	YPRHRGTGIVLIGMF	14.80	0.48	YKVEKLCVWGRNMHM	31.67	1.21
168	GWAERKRARFVSAVNC	5.93	0.21	LPQHRDTEILFSEDFD	2.51	0.09	LDVRDFPILDDGYGRT	14.59	0.47	DFQHKLCVWGRLNMMH	31.51	1.20
169	HFESILMEVREHEKELG	5.55	0.19	LPRQKDTGIVDSMQRF	2.47	0.09	LPRHDYTMILKTYGRF	14.11	0.45	TINKAWTLNDFDIQML	31.41	1.20
170	LPRHADTGIILDSIGLG	5.42	0.19	LPRHTYDGINDTIGRM	2.25	0.08	AKVEKLDFAFWQLRQPY	14.02	0.45	VWRLLKAFWVAVSLG	30.51	1.16
171	QFTRLPGAATATRCVA	5.31	0.19	LPRHTMCNIMDSIGSF	2.15	0.08	LTRRNLTGILSSYTRQ	13.35	0.43	VKVLKLELWVSLKLG	30.49	1.16
172	LKNHRDAGINDSIGRG	5.23	0.18	LPRRRDTGILDSDDQQ	2.15	0.08	LWQYQGRARTVFPAPA	13.28	0.43	MPREKLCVWVRLNMMH	30.34	1.16
173	YEPQIAMPFCGLNMHM	4.77	0.17	VPRGRDAGILDSNGSF	2.14	0.07	DFRRLPGAFAWQLRQPA	13.04	0.42	VRRLLKAFWQLRQPG	29.72	1.13
174	DDRRLPGAFAFKVSAVAA	4.62	0.16	LTRARDGDMDSAGRFR	2.11	0.07	DFKRLSGAFAQSKGRF	12.15	0.39	GWKLEKLGWVSLCQV	27.73	1.05
175	LPRHRDTGILDSIMNV	4.53	0.16	LPQETDKQVLSIGQF	2.02	0.07	YFQHMITYGIYVCRQPG	11.90	0.38	LDRAYAKWCLWMLMFM	27.63	1.06
176	LEPQIAMPFCGLNQMHM	3.88	0.14	DRRHGDQGLMDMIGGF	1.96	0.07	GFRRLGRARFVSAVHA	11.56	0.37	EKVEKLGAFWGLNMMK	26.70	1.02
177	LPIHRDTGILNMMHMV	3.80	0.13	LCGVRDTGMNDSGGGF	1.91	0.07	LPRHRSTLIQMTYSRFR	10.31	0.33	NKVEALYGFGLSIGDC	26.01	0.99
178	AEPLLAPFMNRLNLLPA	3.70	0.13	LPFHEDTGIQDMITRFR	1.82	0.06	LRFACGEARFVSAVPHA	10.02	0.32	GEVNWGSAFQDFIERK	25.81	0.98
179	LPRHKDTGILDSGDRF	3.59	0.13	LPRHRDGEILLESIGNM	1.74	0.06	DQRRLPTYILDVIGRC	9.92	0.32	AEVNWKGAFAWDFNCEA	25.69	0.98
180	GALSETYSFVPSAVAAA	2.93	0.10	LPDLRRTGIDDSNGMF	1.73	0.06	LPRHRSTLIQYGIPIHS	9.77	0.31	DFLTYKSDSWQLRQYA	25.63	0.98
181	AEPQDDMFQCGRLNMHM	2.78	0.10	LDVRVDTGILDSRQGS	1.72	0.06	KKFDRDTGILKSLIGQF	9.60	0.31	SEVWRWGGFGLSIGDC	23.89	0.91
182	ASDWKDTHEIKVRQGN	2.69	0.09	DPDHDDTGYLDEIGRL	1.72	0.06	RVRHADTFGLNLSIGRF	9.25	0.30	AKVALLKELWVVKLGM	22.98	0.88
183	HCESILKEVWVHVKKLG	2.54	0.09	TSQHRDTGQRDDTGRF	1.67	0.06	DFRRDDTGLDGYERF	9.24	0.30	DCWYKGSADFQVIGRC	21.22	0.81
184	HHSRRLKEVIDVKQGN	2.33	0.08	LERHRDTGLADSIGYD	1.66	0.06	LTRRNLTGIAYPWLTO	9.05	0.29	MMRHRDTEVWVSKRFR	20.05	0.76
185	AEPQIAMPFCGLNMHMND	2.26	0.08	LPQRDTQIQDCKGQA	1.65	0.06	AKVEALCAFSQLRQPA	8.97	0.29	MPNKAMTLNDFDIGRK	16.63	0.63
186	AERHRGTGICTSIGNQ	2.22	0.08	NGCHRDTGILDLQGSV	1.58	0.06	LLRVLDFNILDGYSRGM	8.92	0.29	DFQRWKGAFWDLRQPG	15.41	0.59
187	LPVHRDTGIEIKVKQGN	2.15	0.08	LDQVRDKGSEDSINRFR	1.56	0.05	YPDHRTAVWGLNMMHM	8.62	0.28	TINKAWTNFVSKVGLG	14.22	0.54
188	AEPFEIAMPFCGLNMHM	1.76	0.06	LPTHRRDMGACSEMMF	1.44	0.05	LPRLRATNFDVIGRKR	8.46	0.27	AEVNWKGAFAWQLRQEA	11.41	0.43
189	AEPQIGRARFVSAVAAA	1.74	0.06	LPLRVDTTALVSMGDF	1.40	0.05	LPRHRDTGILDSIGRFR	8.13	0.26	AFVVKLCVMTWEYGNF	11.01	0.42
190	LPRHRDTGILDSIGQGN	1.57	0.06	LPRHRDCNEQDSIAEF	1.20	0.04	LYGHRATLNWTEYVNA	8.05	0.26	TFQKAWTLNQCILGAK	9.24	0.35
191	GALSETYARFVSAVAT	1.54	0.05	CPLHRDTRLEDSVRDT	1.16	0.04	DFRHRDTGSLVSIIGRFR	7.73	0.25	GWMEKMCVYSLTETM	9.17	0.35
192	ASDWYDEMLTNRKILPA	1.50	0.05	LPFDRDTGTLKDIGSD	1.08	0.04	DFMQRGTGFNRLNLLPA	7.33	0.24	TINHRATEVWVAVSLG	8.49	0.32
193	PQIAMPFCGEFVSAVAAA	1.38	0.05	LPKERNTGDLKSIIVDM	1.01	0.04	GAKSETYARFVSAVHA	6.81	0.22	AELQKGAFLDFVSRK	6.86	0.26
194	LPRHRDTGILDSISQGN	1.29	0.05	EPRHRDDMILESMTCF	0.93	0.03	TINAAFDNWWRPWCEL	6.23	0.20	MPNHRDTEVWQMRQPG	5.53	0.21
195	PDKAMPFCGLNMNSCNV	0.96	0.03	CPDRDCTGDLDSIDRM	0.91	0.03	TPRHRDTGILQLRQPG	5.90	0.19	DFERLKCCTRWTEYVNA	5.31	0.20
196	PQDAMPFQNDLMAHKTV	0.68	0.02	LPEHQDTGEKESINRM	0.71	0.02	LPAQRDTGIAVVIYVPG	5.89	0.19	MPRHGLCVGGAVSKLGM	5.09	0.19
197							AAANAMWMDWYVPMMK	4.01	0.13	MPRHRDTEVWVVKQLG	2.27	0.09
198							LQRHAKTEELYLIGRM	2.69	0.09	MPRHRDTEVGRNLMHM	1.92	0.07
199							MPRHRDKGMDVSVGES	1.41	0.05	MPVHRDTELMNVKVLGM	1.63	0.06
200							LPRQDDTGFLCSIGDC	0.73	0.02	MPRYRDTTEVWVAVSGDC	0.11	0.00
	Lead Peptides			Lead Peptides			Lead from Gen1			Lead from Gen2		
	HHSRRLKEVWVHVKKLG	31.19	1.09	YEVNWKTHEIKVKQGN	34.56	1.21	YPRHRTYGIYVNDRF	71.89	2.31	GWWEKLCVWGRLNMMH	171.88	6.55
	PQIAMPFCGLNMHMNV	29.09	1.02	GALSETYSFKEYHNT	33.69	1.18	DFMQRGTGILFYSYRFR	67.81	2.18	AKVEKLCVWVWNIHGA	101.63	3.87
	DFRRLPGAFAWQLRQPA	24.00	0.84	GWYKGRARFVSAVAAA	33.13	1.16	LVRHRDLGILKSIERFR	64.09	2.06	EKVEKLGAFWDLRQPG	96.78	3.69
	GWYKGRARFVSAVAAA	23.14	0.81	DFRRLPGAFAWQLRQPA	27.23	0.96	MPRHRDTGVLVSIIGRFR	63.98	2.06	LDRAYAKWCLWMLMFM	94.03	3.58
	YEVNWKTHEIKVKQGN	21.60	0.76	HHSRRLKEVWVHVKKLG	25.91	0.91	LYGHRATLNDFDIGRK	63.02	2.03	SEVWRWGGFGLSIRK	89.86	3.42
	LPRHRDTGILDSIGRFR	19.28	0.68	VWRLLAPFVPSNRLNLLPA	23.53	0.83	GWYKGTAFWQLRQPG	61.99	1.99	TINKAWTLNDFDIGRK	81.48	3.10
	AEPQIAMPFCGLNMHM	19.21	0.67	AKVEKLCVWVWNIHGA	19.84	0.70	DFRRLKGAFAWQSIIGRFR	59.08	1.90	DFQRWKGAFWDLRQPA	81.27	3.10
	AKVEKLCVWVWNIHGA	18.21	0.63	LPRHRDTGILDSIGRFR	19.81	0.70	AEVNWKGAFAWQLRQPA	55.82	1.79	DWFLKLCVWVAVSLKLG	81.17	3.09
	GALSETYSFKEYHNT	15.06	0.53	ASDWYDEMLTWNJIGA	15.10	0.53	GKTHRATRLDLYIGRY	54.91	1.77	MPRHRDTEVWVAVSKLGM	80.08	3.05
	ASDWYDEMLTWNJIGA	14.96	0.53	PQIAMPFCGLNMHMNV	11.55	0.41	LPTFYTYGFLCSIGDC	54.70	1.76	KKFFYYTGFGLSIGDC	77.72	2.96
	VWRLLAPFVPSNRLNLLPA	9.85	0.35	AEPQIAMPFCGLNMHM	7.44	0.26	VWRLLKELWVVKLGM	54.15	1.74	GDRAYKWCLWMLMFM	76.78	2.93
							LPRLRDFVILFISERY	53.94	1.73	VWRLLKAFWQLRQPG	74.88	2.85
							LRFACRTYILDVIGRC	53.68	1.73	GWWHRTYGIYVNDRF	72.14	2.75
							AKVEKLCVWVWVVKLGM	52.95	1.70	AEVNWKGAFAWDFIERK	72.08	2.75
							LPRQRDTGILVVIYRQ	51.40	1.65	DFERLKGAFWMLMFM	71.37	2.72
							PQIAMPFCFAWQLRQPA	51.37	1.65	VWRLLKELWVVKLGM	67.24	2.56
							LPRHDYTMILLTYGRFR	50.36	1.62	LKPFYTYGFLCSIKLG	67.17	2.56
							AKVEKLCFAWQLRQPA	50.26	1.62	LPVNWKGAFAWQLRQEA	66.30	2.53
							DFRRLKELWVWVVKLGM	48.30	1.55	AKVEKLCVWVWVVKLGM	65.15	2.48
							GWYKGTGILVLIIGMF	47.66	1.53	DFRRLKGAFAWQSIYRFR	64.85	2.47
							LPRVKNYTGILAFIIGRFR	46.91	1.51	GWYKGSFAWQVIGRC	54.79	2.09
							LTRRNLTGILSSYTRFR	46.19	1.48	AFVVKLCVMTWEYVNA	53.52	2.04
							GWYKGTAFVWNIHGA	45.44	1.46			

	Generation 3b	x	c	Generation 4	x	c	Generation 5	x	c	Generation6	x	c
1	GWWEKLCVWGRLNMMHG	341.01	12.99	GWWEKLFNWGRQNPQA	357.46	20.95	GWWEKLFNWGRQNPQA	290.53	23.02	GWWEKLFNWGRQDQPK	103.90	26.88
2	GWFEKLCVWGRLNMMH	313.01	11.93	GWWEKLCGFVNFCEK	175.29	10.27	GWWEKLFNWGRQNGHG	263.61	20.88	GWWEKLFNLGCGQNPQA	99.93	25.86
3	GWWEKLCVWGRLNMMH	221.02	8.42	GWWEKLCWGRLNMMHG	165.94	9.72	GWWEKLFNWGRSNMHH	259.20	20.53	GWWEKLFNWGRQDQPK	94.28	24.39
4	DFQVWAGAFWQLRQPG	172.42	6.57	GWWEKLCVWGRLNMMHG	152.39	8.93	GWWEKLFNWGRQNPQA	252.53	20.01	GWWEKLFNWGRQDQPK	91.01	23.55
5	GWWEKLCVWGLLNMMH	169.72	6.47	CWRELLKAWWDFCARK	151.59	8.88	GWWEKLFNWGRQFQPA	246.17	19.50	GWWEKLFNWGRQNPQA	90.70	23.47
6	GWWEKLCVWGLNIHGA	168.39	6.42	GWWEKLSAWWNIHGA	149.39	8.75	GWWEKLFNWGRQNPQA	233.94	18.53	CWWEKLFNWGRQNGCG	89.95	23.27
7	MPRHRDTEVWVVKLGM	164.07	6.25	GWWEKLCWGLNMMHM	143.28	8.40	GWWEKLFNWGRQNPQA	224.81	17.81	GWWEKLFNWGRQNPQA	89.23	23.09
8	GWWEKLGAFWDFIERK	141.30	5.38	MPRFRDQEVVTVSKLG	143.16	8.39	GWWEKLFNFWSNRQPA	212.03	16.80	GWWEKLFNWGRQNGHG	88.10	22.79
9	GWWEKLCVWGRLNMPA	135.26	5.15	GWWEKLCWGRFNMHM	140.64	8.24	GWWEKLFNWGLNMMHG	210.08	16.64	GWWEKLFNWGRQDQPK	88.02	22.77
10	GWWEKLCVWVWNIHGC	133.01	5.07	GWWEKLCVWGRQNMHM	139.72	8.19	GWWEKLFNWGNIIHGA	196.24	15.55	GWWEKLFNWGRDNHGH	86.26	22.32
11	GWCEKLCVWGRLNMMH	125.82	4.79	GWWEKLCWGRLNMMHM	139.40	8.17	GWWEKLFNWGRQDQPK	192.83	15.28	GWWEKLFNWGLNMMHG	85.95	22.24
12	AQSEKCCVWQVVKQLG	125.75	4.79	GWWEKLCWGRLNMMHG	136.64	8.01	GWWEKLFNWGRQNLG	189.74	15.03	GWWEKLFNWGLNMMHG	85.74	22.19
13	GWWEKLCVWGDPIERK	111.89	4.26	SWWEKLGAFWQLRQPG	136.63	8.01	CWRELLKAWWRDNAM	188.39	14.92	GWWEKLFNWGRSNMHH	82.14	21.25
14	DFQRWKGAFWDLRQPG	111.01	4.23	GWWEKLCWGRQNMHM	135.71	7.95	GWWEKLFNWGRQEQPA	183.92	14.57	GWWEKLFNWGRQFQPA	82.10	21.24
15	TINKAWTEVWVAVSKLGM	109.80	4.18	KWYGLCFWCRNLNYRQ	132.83	7.78	GWWEKLFNLGCGQNPQM	176.63	13.99	GWWEKLFNWGLNMMHG	81.93	21.20
16	GWWTWKGAFWDFIERK	107.97	4.11	GWWEKLCFAWVNIHGC	131.56	7.71	SWWEKLFNWGRNMQPA	170.12	13.48	SWWEKLFNWGRQNPQA	81.14	20.99
17	EWWEKLCVWGRLNMDN	107.77	4.11	GWWEKLCVWGRQNMHM	131.							

19	EKVEKLCVWVWNIHGR	106.32	4.05	GWHRDSEVWQVSKLG	130.74	7.66	GWWEKLFNWGRQNPQA	166.10	13.16	GWWEKFFNWGLNMGH	76.85	19.88
20	DWHRRDGGIYVNVRF	105.59	4.02	GWFEVSNWCKLNMHM	130.26	7.63	GWWEKLFNWGRQNGQA	163.74	12.97	GWWEKLFNWGRQNGHG	75.17	19.45
21	QWVEFLCVWGRLNMMH	104.94	4.00	VWRELLKAWGRFNMMH	130.17	7.63	GWWEKLFNWGRQNPQA	163.48	12.95	GWWEKLFNWGRQNGQA	74.66	19.32
22	KKFFYYTGFRLNMMH	104.39	3.98	GWWEKLCGWGRFNMMH	129.50	7.59	GWLEKLCGFVWVFNMMH	163.41	12.94	GWWEKLFNWGCSNMHA	73.71	19.07
23	GWWEKLCVWGRCNVAF	104.20	3.97	KWWEKLCWVWNIHGA	128.32	7.52	GWWEKLFNWGRQNMHG	157.74	12.50	GWWEKLFNWGRQBPQA	73.34	18.98
24	SEVRWKGAFWGSIGRF	104.13	3.97	CWWEKLCGWGRFNMMH	127.90	7.49	GWWEKLFNWGRQNMHF	154.06	12.20	GWWEKLFNWGRQNPQA	73.17	18.93
25	KKFFYYCVWVWVSKELG	101.62	3.87	GWWEKLCVWVWQIHCA	122.85	7.20	GWWEKLFNAGRQNHCA	151.50	12.00	GWWEKLFNWGLNMGH	72.76	18.83
26	LDRAYATEVWVAVSKLD	101.02	3.85	GWWEKLCWVGRLNMMH	121.81	7.14	GYWEKLFNWGRQNPQA	151.36	11.99	GWWEKLFNWGRQNPQA	72.31	18.71
27	GWWEKLCVWGSYIGRY	100.75	3.84	GWWEKLCGAFGRLNMMH	121.61	7.13	GWWEKLSWGRQNMCHM	150.58	11.93	GWWEKLFNWGRSNMMH	72.21	18.68
28	YFQRWKGAFWQLRQPA	100.24	3.82	GWWEKLCGAFWDFTCRK	118.85	6.96	GWWEKLFNWGRQNPQA	147.41	11.68	GWWEKLFNWGLNMMH	72.08	18.65
29	MPRHRDTEVWVAVSKLG	99.39	3.79	GWWEKLCVWGRQNMHM	118.39	6.94	AWWEKYFNWGRQNMFM	141.14	11.18	GWWEKLFNWGRQNMHF	71.76	18.57
30	DFRARDTEVWVAVSKLG	99.25	3.78	GWWEKLCWVGRLNMAHA	118.34	6.93	GWWEKLCWVWDFCARK	139.80	11.07	GWWEKLFNWGRQNGHG	71.33	18.46
31	DFERLKGAFWQLRQPA	99.08	3.77	GWWEKLCVWVWQNPFR	116.80	6.84	GWWEKLMNWGRLNMMHG	138.23	10.95	GWWEKLFNWGRQNPQA	71.03	18.38
32	AEVNWKGAFWDFIERK	98.36	3.75	GWWEKLCVWGRQNMHM	116.78	6.84	GWWEKLCWGRLNMMHG	137.03	10.86	GWWEKLFNWGRSNMMH	70.88	18.34
33	EKVEKLCGAFWVNIHGA	97.28	3.71	EWWEKLCVWGRQNPQA	116.53	6.83	GWWEKLCWGRQAMHM	132.76	10.52	CWWEKLFNWGLNMMHG	70.86	18.33
34	MPRHRDTEVWVAVSKLG	96.45	3.67	GWWEKLCWVGRLNMMH	115.62	6.78	GWWEKLCWVGRFNMMH	128.49	10.18	GWWEKLFNWGRQNPQA	70.78	18.31
35	AKVEKLCVWVWNIHGA	96.37	3.67	GWWEKLCWGRLNMMHG	115.26	6.75	GWHRDQEVWTVVSKVG	127.71	10.12	GWWEKLFNWGRQBPQA	70.62	18.27
36	LRRAYDTEVWVAVSKLG	95.13	3.62	GWWEKLCVWGRSNMMH	114.59	6.71	GWWEKYFNWGRQNPQA	127.64	10.11	GWWEKLCWGRQNMHG	70.59	18.26
37	MPRHRDTEVWVAVSKLG	95.08	3.62	GWWEKLCVWGRLNMMH	114.07	6.68	GWWEKLCWGRQNPQA	127.20	10.08	GWWEKLFNWGRQNMHM	70.32	18.20
38	MNRHRDTEVWVAVSKLG	94.54	3.60	GWWEKLCVWVWQIHGA	113.85	6.67	GWWEKLCWGRLNMMHG	126.34	10.01	GWWEKLFNWGRQNMHG	70.31	18.19
39	VWRLLDKAWGRLQMHM	93.74	3.57	GWWEKLCVWGRQNMHM	113.51	6.65	GWWEKLCWGRLNMMHG	125.26	9.92	GWWEKLFNWGRQNGQA	70.12	18.14
40	VFERLKGAFWVWVFNND	93.16	3.55	GWWEKLCVWGRQNPQA	113.22	6.63	GWWEKLCWGRLNMMHG	125.18	9.92	GWWEKLFNWGRQNGHG	69.57	18.00
41	GWWEKLCWVWVYIFRF	92.06	3.51	GWFEKLCWVGRLNMMH	112.49	6.59	MWVKLLKAWWDFCARK	125.13	9.91	GWWEKLFNWGRQNMHG	69.11	17.88
42	SEWEKLCVWGRSNMMHM	91.45	3.48	GWWEYLCWGRLNMMH	112.35	6.58	NFRFRDQEVWTVVSKLG	124.73	9.88	GWWEKLFNWGLNMMHG	69.03	17.86
43	AEVTKLCVWDRFNMMH	89.61	3.41	GWWEKLCVWGRLQPPA	111.97	6.56	RWWEKLFNWMLQNPFC	124.08	9.83	GWWEKLFNWGRQBPQA	68.66	17.76
44	DKVEKLCVWVWNIHGA	88.59	3.38	FWWEKLCGAFWQMRQPG	111.18	6.51	GWWEKLCWVWQVSKLS	123.07	9.75	GWWEKLFNWGRQNMHG	68.28	17.67
45	EKVEKLCVWVWNIHGA	88.43	3.37	GWWEKLCWGRLNNDPA	111.07	6.51	GWWEKLFNWGRQIHGC	122.62	9.71	GWWEKLFNWGRQNMHV	66.63	17.24
46	AEVNWKGAFWDRLCEA	88.25	3.36	GWCHRDEVWVAVSKLG	110.02	6.45	GWWEKLFNWGRQNGQA	122.09	9.67	GWWEKLFNWGRQNPQA	66.51	17.21
47	KKFFYYTGFGLSIRKL	88.11	3.36	GWWEKLCVWGRLNMMH	109.30	6.40	GWWEYLCWVWDFCARK	121.80	9.65	GWWEKLFNWGLNMMHG	64.21	16.61
48	GWVQLLKAQWGRLOPK	87.66	3.34	GWWEKLCVWGRLNMMH	108.99	6.39	GWWEKLCWGRLNMMHG	120.88	9.58	GWWEKLFNWGRQBPQA	64.17	16.60
49	LPVEKLCVWVWNIHGA	86.32	3.29	GWWEKLCVWGRQNPQA	108.93	6.38	GWWEKLCWVWNSCERK	120.75	9.57	GWWEKLFNWGRSNMMH	64.17	16.60
50	GWWEKLCVWVWNIHGA	86.30	3.29	VWRELLKAWGRLEFMMH	107.25	6.28	GWWEKLCWVWNSCERK	119.04	9.43	GWWEKLFNWGRQNHGA	62.39	16.14
51	GWVHKLKCVWGLNMMH	85.76	3.27	GWFEKLCWVTRNNMMH	104.98	6.15	DWWEKLSAWVWNIHGA	117.89	9.34	GWWEKLFNWGRQNVPA	62.21	16.10
52	VWRLLKMFGRLNMMH	83.58	3.18	GWFEKLCWVTRNNMMH	104.90	6.15	CWRELLKAWWDFCARK	115.19	9.13	GWWEKLFNWGRQNMHG	62.03	16.05
53	AEVNWKGAFWVWVFNND	82.80	3.15	GWFEKLCVWVAVSKLG	104.52	6.12	GWWEKLCWVWNSCERK	114.95	9.11	GWWEKLFNWGRQNPQA	61.43	15.89
54	VWRLLKMFGRLNMMH	82.59	3.15	GWWEKLCVWGRLNMMH	104.16	6.10	GWWEKLCWVWNSCERK	114.84	9.10	GWWEKLFNWGRQNPQA	61.36	15.88
55	GWVHRYTGFVWVSIKGR	81.81	3.12	GWWEKLCVWVWQIHGA	104.13	6.10	GWWEKLCWVWNSCERK	114.12	9.04	GWWEKLFNWGRQNPQA	60.75	15.72
56	MPRHRDTEVWVAVSKLG	81.81	3.12	GWWEKLCVWVWQIHGA	104.10	6.10	GWWEKLCVWGRQNMHM	113.58	9.00	AWWEKLFNWGRSNMMH	60.37	15.62
57	LPKFFYYTGFVWVAVSKLG	81.15	3.09	GWWEKLCVWVWQIHGA	103.75	6.08	GWWEKLCWVWNSCERK	111.98	8.87	GWWEKLFNWGRQBPQA	60.27	15.59
58	LWRLLKMFGRLNMMH	80.51	3.07	GWWEKLCVWGRLNMMH	102.74	6.02	GWVWVWVWNSCERK	111.01	8.79	GWWEKLFNWGRQNHGA	58.87	15.23
59	VWRRLKAFWQLRQND	79.56	3.03	GWWEKLCVWGRLNMMH	102.53	6.01	CWRELLKAWWDFCARK	110.90	8.79	GWWEKLFNWGRQBPQA	58.46	15.13
60	GDRAMKGLWVWVWDF	79.46	3.03	GWWEKLCVWGRSNMMH	101.36	5.94	GWWEKLCWVWNSCERK	110.47	8.59	GWWEKLFNWGRQNPQA	58.37	15.10
61	LPVNWKGAFWDFIERK	78.33	2.98	GWWEKLCVWGRLNMMH	101.29	5.94	GWWEKLCVWGRQNMHM	106.98	8.47	AWWEKYFNWGRQBPQA	57.95	14.99
62	VWRLLKMFGRLNMMH	78.04	2.97	GWWEKLCVWGRQNPQA	100.24	5.87	GWWEKLFNWGRQNPQA	106.93	8.47	GWWEKLFNWGRQNMHM	57.54	14.89
63	MWVHRYTGFVWVAVSKLG	77.62	2.96	RWWEKLCVWGLNMMH	99.00	5.80	GWWEKLFNWGRQNPQA	106.43	8.43	GWWEKLFNWGRQNMHM	57.38	14.85
64	VWRLLKAFWQLRQPG	76.86	2.93	GWWEKLCVWGRLNMMH	98.76	5.79	GWWEKLFNWGRQNPQA	104.59	8.29	GWWEKLFNWGRQNPQA	57.28	14.82
65	GDRAYAKWVWVWVWDF	76.81	2.93	VWRELLKAFWVWNSCERK	95.80	5.61	GWWEKLCWVWNSCERK	104.58	8.28	GWWEKLFNWGRQNPQA	56.71	14.67
66	KKFFYYTGFVWVAVSKLG	76.15	2.90	GWWEKLCVWGRLNMMH	95.02	5.57	GWWEKLCWVWNSCERK	103.69	8.21	GWWEKLFNWGRSNMMH	56.01	14.49
67	ERFARAKWVWVWVWDF	75.75	2.89	GWWEKLCVWVWQIHGA	94.23	5.52	GWWEKLCWVWNSCERK	103.35	8.19	GWWEKLFNWGRQBPQA	55.82	14.44
68	TINKAWCVWVWVWVWDF	75.41	2.87	GWWEKLCVWVWQIHGA	93.92	5.50	GWWEKLCWVWNSCERK	103.21	8.18	GWWEKLFNWGRQNPQA	55.78	14.43
69	DFQRLLKMFGRLNMMH	73.90	2.82	GWWEKLCVWVWQIHGA	93.18	5.46	GWWEKLCWVWNSCERK	102.34	8.11	GWWEKLFNWGRQNHGA	55.26	14.30
70	DFQRWKGAFWQLRQND	73.38	2.80	GWWEKLCVWVWQIHGA	93.18	5.46	GWWEKLCVWGRQNMHM	102.07	8.09	GWWEKLFNWGRQNMHC	55.04	14.24
71	KINKAWVWVWVWVWDF	73.07	2.78	GWFEKLCWVGRLNMMH	92.86	5.44	GWWEKLCVWVWQIHGA	100.93	8.00	GWWEKLFNWGRQNPQA	54.92	14.21
72	GWWEKLCVWVAVSKLG	72.54	2.76	GWWEKLCVWGRLNMMH	90.18	5.28	GWWEKLCWVWNSCERK	99.83	7.91	GWWEKLFNWGRQNHGA	54.78	14.17
73	GDRAYKGLWVWVWDF	71.92	2.74	GWWEKLCVWGRLIGDC	90.14	5.28	GWWEKLSAWVWNIHGA	99.74	7.90	GWWEKLFNWGRSNMMH	54.34	14.06
74	VWRLLKCVWVWVSKLG	71.84	2.73	GWFEKLCWVGRLNMMH	89.74	5.26	NWTEKLCVWVWVSKLG	99.38	7.87	GWFEKLFNWGRQNPQA	54.17	14.02
75	GAWEKLCVWVWVWVWDF	70.53	2.69	GWWEKLCVWVWVWVWDF	89.39	5.24	GWWEKLCWVWNSCERK	99.22	7.86	GWWEKLFNWGRQNMFM	54.16	14.01
76	AKVEKLCVWVWNIHGA	70.20	2.67	GWWEKLCVWGRLNMMH	88.66	5.20	GWWEKLCWVWNSCERK	98.03	7.77	GWWEKLCWVWNSCERK	53.93	13.95
77	MPRHRDTEVWVWNIHGF	70.18	2.67	GWWEKLCWVGRLNMMH	88.38	5.18	GWWEKLFNWGRQNPQA	97.93	7.76	GWWEKLFNWGRQNMHM	53.71	13.90
78	GWVHRYTGFVWVAVSKLG	69.59	2.65	GWWEKLCVWGRLNMMH	88.21	5.17	GWWEKLCGFVWVFNMMH	97.65	7.74	GWWEKLFNWGRQNPQA	53.43	13.83
79	GWVYKTAFAWDFIERK	69.25	2.64	GWWEKLCVWGRLNMMH	87.43	5.12	VWRELLKAWWDFCARK	96.36	7.63	GWWEKLFNWGRQNHGA	53.30	13.79
80	VWRLLKMFGRLNMMH	67.82	2.58	GWWEKLCVWGRLEMMH	87.35	5.12	GWWEKLCWVWNSCERK	95.43	7.56	GWWEKLFNWGRQNMHG	53.30	13.79
81	AEVNWKGAFWVWVSKLG	67.36	2.57	GWWEKLCVWGRQNMHM	86.73	5.08	GWWEKLCWVWNSCERK	95.24	7.54	GWWEKLFNWGRQNPQA	53.14	13.75
82	AEVNWKGAFWVWVSKLG	67.07	2.56	GWWEKLCVWVWQIHGA	86.40	5.06	GWWEKLCWVWNSCERK	94.78	7.51	GWWEKLFNWGRQNMHM	52.54	13.59
83	DFERLKGAFVWVNVRF	66.72	2.54	GWWEKLCWVWVWQIHGA	86.27	5.06	GWWEKLCWVWNSCERK	94.25	7.47	GWWEKLFNWGRQNMHG	52.46	13.57
84	GMRHACVWVWVWVWDF	66.29	2.53	GWFEKLCWVWNSCERK	85.08	4.99	GWWEKLCWVWNSCERK	93.63	7.42	GWWEKLFNWGRQNMHG	52.45	13.51
85	AKVYKGLWVWVWVWDF	66.17	2.52	GWWEKLCVWGRLNMMH	84.53	4.95	GWWEKLCWVWNSCERK	92.70	7.34	GWWEKLFNWGRQNPQA	51.19	13.25
86	LPVEKLCGAFWGSIGRF	65.86	2.51	GWWEKLCVWGLNMMH	84.50	4.95	GWWEKLCWVWNSCERK	92.51	7.33	GWWEKLFNWGRQNMHM	51.13	13.23
87	TWFLKLCVWVWVSKLG	65.50	2.50	GWWEKLCVWGRLNMMH	84.09	4.93	GWWEKLCWVWNSCERK	91.62	7.26	GWWEKLFNWGRQNPQA	50.26	13.00
88	KKFFYYTGFVWQLRQEA	65.43	2.49	VWRELLKAWGRLNMMH	84.00	4.92	GWWEKLCWVWNSCERK	89.89	7.12	GWVTKLFNWGRQNLG	49.81	12.89
89	GWVHRYTGFVWVAVSKLG	65.09	2.48	GWWEKLCVWGRLNMMH	83.43	4.89	GWWEKLCWVWNSCERK	88.77	7.03	GWWEKLFNWGRQNMHG	49.59	12.83
90	SEVRWKGAFWQVSKTL	64.78	2.47	GWWEKLCVWGRLNMMH	82.87	4.86	GWWEKLCGAFWQLRQMG	88.37	7.00	GWWEKLFNWGRQNHGA	49.44	12.79
91	LPKFFYYTGFVWVAVSKLG	63.98	2.44	GWWEKLCVWGRQRLPG	82.62	4.84	VWRELLKAWGRQNPQA	88.29	6.99	GWWEKLFNWGRQBPQA	49.31	12.76
92	VWRLLKMFGRLNMMH	63.59	2.42	MPKHRDTEVWVAVSKLG	82.47	4.83	GWWEKLCWVWNSCERK	87.65	6.94	GWWEKLFNWGRQNPQA	48.91	12.65
93	AFRLLKMFGRLNMMH	63.56	2.42	GWWEKLCVWVWNSCERK	80.64	4.73	GWWEKLCWVWNSCERK	86.87	6.88	LWWEKLFNWGRQNMHG	48.75	12.61
94	GWVHRYTGFVWVAVSKLG	63.13	2.41	GWWEKLCWVGRLNMMH	80.53	4.72	GWWEKLSAWVWNIHGA	86.77	6.87	AWWEKLFNWGRQNMHG	48.62	12.58
95	GATHRACVWVWVAVSKLG	62.08	2.37	GWWEKLCVWGRLNMMH	80.46	4.71	GWWEKLCGFVWVFNMMH	85.51	6.77	GWWEKLFNWGRQNLPA	48.05	12.43
96	GWVYKGLWVWVWVWDF	61.60	2.35	GWFEKLCWVWVWQIHGA	79.93	4.68	GWVTKLWVWNSCERK	85.32	6.76	GWWEKLFNWGRQNGHG	47.43	12.27
97	VWFLKLCVWVWVSKLG	61.37	2.34	GWWEKLCWVWNSCERK	79.29	4.65	GWWEKLCWVWNSCERK	85.07	6.74	GWWEKLFNWGRQNPQA	47.00	12.16
98	DWFLKLCVWVWVWVWDF	60.99	2.32	GWWEKLCGAFWDFTCRK	78.66	4.61	GWWEKLCWVWNSCERK	84.64	6.71	GWWEKLFNWGRQNPQA	46.61	12.06
99	MPRYLKGLWVWVWDF	60.81	2.32	GWWEKLCVWDFCERK	77.44	4.54	GWWEKLCWVWNSCERK	83.17	6.59	GWWEKLFNWGRQNMHM	46.19	11.95
100	VKRAYAKWVWVWVWDF	60.43	2.30	GWWEKLCVWGRQNPQA	76.92	4.51	GWWEKLCWVWNSCERK	82.60	6.54	GWWEKLFNWGRQBPQA	45.82	11.85
101	SWVHRYTGFVW											

115	AKVVKCEVWVNIHLG	52.81	2.01	MPRHRDTEVWTVMKLG	63.83	3.74	GWWEKLCGWGRNQQA	73.31	5.81	GWWEKLFVWGGNIHPM	41.72	10.80
116	AYVFRLEQILKSIERR	52.32	1.99	GWWEKLCGWGRNQQA	62.91	3.69	YVWEKLCGWGRFNHMA	72.71	5.76	GWWEKLFNWGRQDQPA	41.49	10.73
117	GWYKGSFAWQLRQRA	52.30	1.99	DFQYWACGWGRLNMMH	58.67	3.44	GWLEKLCGWGRLNMMH	72.02	5.71	GWWEKLFNWGRQDQPK	41.17	10.65
118	CWWEKTLTFLDFIGRK	51.61	1.97	GWWLRLCTWGRLNMMH	57.97	3.40	SWWEKLGAFWQLRVYHM	71.75	5.68	GYWEKLFNWGRQDQPPA	41.13	10.64
119	LDRAKAWCLDFIERK	51.09	1.95	VWNERDSEVWVSKL	57.22	3.35	GWRELSKAWWDFCARK	69.38	5.50	GWWEKLLKAWWRDNCAR	40.45	10.47
120	LVFHRLRGVFFIYGR	50.54	1.93	GWNEKLCVWGRVQIHA	56.69	3.32	GWWEKLCVWGRVNIHEA	69.33	5.49	GWWEKLFNWGRQDQPA	40.11	10.38
121	LPKFLGTAFWQDRQTD	50.30	1.92	GWWEKLCVWGRVQSN	56.40	3.30	GWWEKLCVWGRVLYMHG	66.97	5.31	GWWEKLFNWGRQDQHG	39.35	10.18
122	DWFLKLCVWAEISIFRF	50.17	1.91	GYWEKLCVWGFPCERK	56.26	3.30	GWWEKLCVWGRFNMSM	66.36	5.26	GWWEKLFNWGRQDQHM	39.19	10.14
123	VDRAYAKWCLMFCDE	49.43	1.88	GEANWKGAWWNIHGA	56.07	3.29	GDWEKLFNFGRQDQPA	65.58	5.19	SWWEMLANWGRNRPQM	38.97	10.08
124	GWCKQACRQVGLAMHV	48.05	1.83	GWWEKLCVWGRVQSN	56.00	3.28	GWWEKLCVWGRVLYMHG	64.77	5.13	GWWEELFNWGRSNMHH	38.58	9.98
125	AKOYSTGALLDIYGRY	47.96	1.83	GWCEYLCVWGRVQSN	55.97	3.28	KWWELELEGRQDQPA	63.91	5.06	SWWNLKLFNWGRQDQPM	38.50	9.96
126	DFRLLKAGALMFTDF	47.86	1.82	AEVNWKGAWWVSTKLG	55.60	3.26	CWWEKLFNFGGRQSKLG	63.56	5.03	GWWEKLMNWGGNIHGA	38.42	9.94
127	DFRLLKAGALFISIGRK	47.83	1.82	GWWEKLCVWGRVQSN	55.24	3.24	GWWEKLCVWGRVQIHA	63.51	5.03	GWWEKLFNWGRQDQHPA	37.69	9.75
128	VWRLLLTGILAFILRF	47.56	1.81	LWWEGLCVWGRVQSN	54.70	3.21	GWWEKLCVWGRVQSN	63.33	5.02	GWWEGLFNWGRQDQPA	37.68	9.75
129	ARVSWKGAFSDFIERK	47.54	1.81	GWAEKLDGWGRVQSN	54.05	3.17	GWWEKLCVWGRVQSN	62.51	4.95	GWWEKLCVWGRVQSN	37.59	9.73
130	LWVYEGCAVWRQDQDC	47.17	1.80	GWWEKLCVWGRVQSN	53.31	3.12	GWWEKLCVWGRVQSN	61.29	4.85	GWWEKLFNWGRQDQHM	37.00	9.57
131	LWVYEGCAVWRQDQDC	47.04	1.79	VWWEKLCVWGRVQSN	51.86	3.04	GWWEKLCVWGRVQSN	59.90	4.74	GVWEKLFNWGRVQSN	36.58	9.47
132	EKVEKLGAFWTSIGRA	46.57	1.77	GWFEKLCVWGRVQSN	51.70	3.03	GWWEKLEGGWVFCERD	59.09	4.68	GWWEKLFNWTRNNQPA	35.44	9.17
133	AEVNWKGVWVSKL	46.24	1.76	GWWMKLCVWGRVQSN	50.99	2.99	GWWEKLCVWGRVQSN	58.82	4.66	GWWEKLFNWGRQDQHPA	35.36	9.15
134	GWYKATAFWQLRQEA	46.00	1.75	GWWEKLCVWGRVQSN	50.75	2.97	GWWEKLCVWGRVQSN	54.23	4.30	GWWEKLFNWGRQDQPK	35.19	9.11
135	VWRLLKCVWVWEYINA	44.86	1.71	GWWEKLCVWGRVQSN	50.61	2.97	GWWEKLCVWGRVQSN	54.13	4.29	CWRELLKAWWRDQDQPA	35.04	9.07
136	AKVLLKCVWVSKVGL	44.60	1.70	DFQVWLCVWGRVQSN	49.60	2.91	GWFEKLCVWGRVQSN	52.03	4.12	GWFEKYFNWGRQDQHPA	34.20	8.85
137	AFVWMLKCVWGRVLYMHG	44.26	1.69	DFQVWACGWGRVQSN	49.34	2.89	GWWEKLCVWGRVQSN	51.97	4.12	GWWEKLCVWGRVQSN	33.04	8.55
138	AKVEKLCVWGRVQSN	44.09	1.68	GWFEKLCVWGRVQSN	49.25	2.88	FWWEKLCVWGRVQSN	51.47	4.08	GWWEKLFNWGRQDQPM	32.90	8.51
139	KKFFYYTGFVQLRQPA	43.65	1.66	GWWEKLCVWGRVQSN	48.78	2.86	GWWEKLCVWGRVQSN	51.42	4.07	GWWMKLFVWGRQDQHM	32.71	8.46
140	FFVWMLKCVWVWEYINA	43.40	1.65	MPRHRDAEVTWVQSN	48.74	2.86	SWWEKLCVWGRVQSN	51.35	4.07	GWWEKLFNWGRVQSN	32.58	8.43
141	LDRAKAWCLDFIERK	42.83	1.63	GWFEKLCVWGRVQSN	48.38	2.84	GWWDYLCVWGRVQSN	51.35	4.07	GWLEKLFNWGRQDQHG	32.46	8.40
142	LPTFRLEGWGRVQSN	42.42	1.62	GWWEKLCVWGRVQSN	44.82	2.63	FWWEKLCVWGRVQSN	50.45	4.00	KWWEKLFNWGRQDQHPA	30.64	7.93
143	TMNKKLCVWGRVQSN	41.98	1.60	GWWEKLCVWGRVQSN	44.80	2.63	GWFEKLCVWGRVQSN	49.88	3.95	RRWEKLFNWGRQDQHG	30.57	7.91
144	AEVNWKGAAGVRLNMMH	41.32	1.57	AEVNWKGAAGVRLNMMH	44.60	2.61	GWWEKLCVWGRVQSN	49.14	3.89	GWVFKLFTWGRVQSN	30.04	7.77
145	EKCEKLGAFWTSIGRA	40.67	1.55	GWWEKLCVWGRVQSN	44.32	2.60	GWWEKLCVWGRVQSN	47.56	3.77	GWWEKLFNWGRQDQHPA	29.37	7.60
146	MPREKLSVWGRVQSN	40.16	1.53	AEVNWKGAAGVRLNMMH	43.97	2.58	GWWEKLCVWGRVQSN	47.26	3.74	CWWEKLFNWGRQDQHPA	28.96	7.49
147	DFRLLKELWVWVSKL	40.06	1.53	DFYVWAGVWQVQSN	43.78	2.57	GWWEKLCVWGRVQSN	47.12	3.73	GWWEKLMNWGRVQSN	28.84	7.46
148	DFEKLKCVWGRVQSN	40.00	1.52	GWWEKLCVWGRVQSN	42.24	2.47	GWWEKLCVWGRVQSN	46.20	3.66	CWRELLKAWWRDQDQPA	28.62	7.40
149	MPRHRDTEVWAFIQRK	39.76	1.51	GWWEKLCVWGRVQSN	41.56	2.44	GWWEKLCVWGRVQSN	45.21	3.58	GWWEKLFNWGRQDQHPA	28.49	7.37
150	VWVYLGKELENAKGL	38.73	1.48	GWWEKLCVWGRVQSN	41.45	2.43	GWWEKLCVWGRVQSN	45.08	3.57	GWWRKLFNWGRVQSN	27.82	7.20
151	LVFHRLRGVFFIYGRY	38.69	1.47	GWLEKLCVWGRVQSN	40.63	2.38	GWWEKLCVWGRVQSN	44.70	3.54	GWWEKLFNWGRQDQPM	27.23	7.04
152	GKTHRACVWSEKGL	37.78	1.44	GWWEKLCVWGRVQSN	40.50	2.37	GWWEKLCVWGRVQSN	42.43	3.36	AWWEKYFRKGRQDQHG	26.87	6.95
153	GWYKATAFAQLRQPA	37.71	1.44	QWWEKLCVWGRVQSN	38.97	2.28	VWWEKLCVWGRVQSN	42.32	3.35	GWWEKLFNWGRQDQHG	26.68	6.90
154	VWRRCGAFWQLRQKA	37.56	1.43	GWWEKLCVWGRVQSN	38.47	2.25	GWWEKLCVWGRVQSN	40.92	3.24	GWWEKLFNWGRVQSN	26.50	6.86
155	GWWEKLCVWGRVQSN	37.01	1.41	GWWEKLCVWGRVQSN	38.31	2.24	GWWEKLCVWGRVQSN	38.70	3.07	GWWEKLFNWGRVQSN	26.41	6.83
156	GWYKATAFANCVAC	36.94	1.41	VWVYLGKELENAKGL	37.96	2.22	CWRELLKAWWRDQDQHPA	38.49	3.05	GWWNLKLFNWGRVQSN	26.12	6.76
157	SDRRLKAGALFISEYRF	36.58	1.39	GWWEKLCVWGRVQSN	37.40	2.19	VWRELLYAWWRDQDQHPA	38.39	3.04	GWWNLKLFNWGRVQSN	25.62	6.63
158	DWFLYTGFLSIGDC	36.38	1.39	TWFEALCDWGRVQSN	36.77	2.15	SWWLLKAWWRDQDQHPA	37.74	2.99	CWREMLKFWWVQSN	25.45	6.58
159	LVFHAKRQCVWVSKL	34.16	1.30	GWFEKLCVWGRVQSN	36.45	2.14	DWWEKLCVWGRVQSN	36.87	2.92	GWWEKLFNWGRQDQHPA	25.02	6.47
160	GWWEKLCVWGRVQSN	33.31	1.27	GWWEKLCVWGRVQSN	36.06	2.11	SWWETLCVWGRVQSN	36.76	2.91	GWWEKLFNWGRVQSN	23.93	6.19
161	TWYKGSAGVQVIGGA	32.98	1.26	GWWEKLCVWGRVQSN	33.61	1.97	GWWEKLCVWGRVQSN	35.43	2.81	GWWEKLCVWGRVQSN	23.91	6.19
162	MPRLLKCVWGRVQSN	32.59	1.24	MPLHRAAGVWDFICRK	33.11	1.94	GWWEKLCVWGRVQSN	34.94	2.77	GRWEKLFNWGRVQSN	23.52	6.08
163	DEVSNTGILAFIQRK	32.00	1.22	VWRELLYAWWRDQDQHPA	32.38	1.90	GWWEKLCVWGRVQSN	34.77	2.75	GWWEKLFNWGRVQSN	22.11	5.72
164	ANRLLKCVWGRVQSN	31.84	1.21	GWWEKLCVWGRVQSN	31.78	1.89	GWWEKLCVWGRVQSN	34.28	2.72	GKWEYLFNWGRVQSN	19.66	5.09
165	AYVNYNTGILAFIQRK	30.71	1.17	GWWEKLCVWGRVQSN	31.20	1.86	CWAEKLCVWGRVQSN	33.60	2.66	SWWEKLFNWGRVQSN	17.49	4.52
166	LDRAAKAWQVQVIGGA	30.17	1.15	DWVWMLKCVWGRVQSN	30.12	1.76	CFRELLKAWWRDQDQHPA	32.54	2.58	GWWAKLAWWRVQSN	17.21	4.45
167	GKTGRDCVWGRVQSN	30.14	1.15	VWFEKLCVWGRVQSN	29.58	1.73	GWWEKLCVWGRVQSN	32.52	2.58	GWVFKLFTWGRVQSN	16.76	4.34
168	GWWEKLCVWGRVQSN	30.08	1.15	GWFEKLCVWGRVQSN	28.86	1.69	CWRELLKAWWRDQDQHPA	32.47	2.57	CWQEKLFNWGRVQSN	16.65	4.31
169	LPTFRLEGVQVIGGA	29.27	1.11	GWFEKLCVWGRVQSN	28.80	1.69	SWWEKLCVWGRVQSN	32.36	2.56	SWWEVRFNCGRALQPK	15.64	4.05
170	AYRHRDTEVWVSKL	28.64	1.09	AEVNWKGAAGVRLNMMH	28.38	1.66	GWWEKLCVWGRVQSN	31.04	2.46	GWWEKLFNWGRVQSN	15.34	3.97
171	MWQYKGTALLDYGIMH	28.39	1.08	GWWEKLCVWGRVQSN	28.10	1.65	GWWEKLCVWGRVQSN	27.23	2.16	GWWEKLFNWGRVQSN	14.67	3.79
172	LPKFFYYTRFLSIGDC	27.76	1.06	GWWEKLCVWGRVQSN	27.96	1.64	VWRELLYAWWRDQDQHPA	25.60	2.03	GWWEKLFNWGRVQSN	14.60	3.78
173	LDRAKAWCLDFIERK	27.56	1.05	GYWEKLCVWGRVQSN	27.02	1.58	GWWEKLCVWGRVQSN	23.28	1.84	GWWEKLFNWGRVQSN	13.38	3.46
174	SEVNWKGAAGVRLNMMH	26.65	1.02	GWWEKLCVWGRVQSN	26.65	1.56	GWWEKLCVWGRVQSN	22.87	1.81	AWWEKLCVWGRVQSN	12.23	3.16
175	AKFEKACVWGRVQSN	25.95	0.99	QVTLKLFVWGRVQSN	22.57	1.32	MPWELLSAWWNIHGA	21.75	1.72	EWWEKLFNWGRVQSN	10.92	2.82
176	VWRLLLTGFCGSIQDC	24.51	0.93	GWWEKLCVWGRVQSN	21.90	1.28	CWRELLKAWWRDQDQHPA	20.75	1.64	GWTEKAFNWGRVQSN	10.51	2.72
177	ERFARLCVWSEMFND	24.22	0.92	GWYGLLEARRQTHGA	21.60	1.27	GWWEKLCVWGRVQSN	20.72	1.64	KRWEKLFNWGRVQSN	10.30	2.67
178	EKVELLCVWVSVIGLV	24.08	0.92	VWWDKLCVWGRVQSN	21.28	1.25	MPRFRDQTVWVQIHA	19.08	1.51	GVLEKLFNWGRVQSN	10.11	2.62
179	MPRHLKCVWGRVQSN	23.95	0.91	MCFERLCVWGRVQSN	19.04	1.12	GFWRVCFYVGRVQSN	18.37	1.46	GWYKLGWVQVQSN	9.97	2.42
180	TINKAWTEVWVSKL	23.24	0.89	GWWEKLCVWGRVQSN	17.12	1.00	GWWEKLCVWGRVQSN	17.87	1.42	GWWEKLFNWGRVQSN	9.09	2.35
181	GWYKGTALLDYGIMH	23.22	0.88	AEVNWKGAAGVRLNMMH	16.10	0.94	GWCEKLCVWGRVQSN	16.04	1.27	GYWEKLFNWGRVQSN	8.96	2.32
182	KKFFYYTGFVQLRQPA	22.76	0.87	GWWEKLCVWGRVQSN	15.78	0.92	GWDEGLFFWGRVQSN	15.15	1.20	CWRELLKAWWRDQDQHPA	8.64	2.23
183	MPRHRDTEVWVSKL	21.12	0.80	VWWEKLCVWGRVQSN	13.69	0.80	GWWEKLCVWGRVQSN	14.96	1.19	GWWEKLFNWGRVQSN	7.76	2.01
184	GWQYKGTALLDYGIMH	20.46	0.78	AEVNRDSEVWVSKL	13.26	0.78	MPRFRDQTVWVQIHA	13.68	1.08	CWREKLFNWGRVQSN	7.45	1.93
185	LDMEYAGWTLWEQTRF	19.47	0.74	GWWEKLCVWGRVQSN	12.90	0.76	MPRFRDQTVWVQIHA	12.61	1.00	GWWEKLFNWGRVQSN	6.92	1.79
186	MPMHRDTEVWVSKL	19.47	0.74	GWLEKLCVWGRVQSN	12.38	0.73	RWVVDQAKWGRVQSN	10.76	0.85	GWWEKLCVWGRVQSN	6.88	1.78
187	GWYKATAFVQVIGGA	18.95	0.72	GRFEKLCVWGRVQSN	12.22	0.72	GWWEKLCVWGRVQSN	10.73	0.85	GQVLLKCVWGRVQSN	6.47	1.67
188	DFRRLKAGALFISIGRK	18.12	0.69	GWDEKLCVWGRVQSN	11.62	0.68	GWWEKLCVWGRVQSN	10.37	0.82	GWWEKLFNWGRVQSN	6.10	1.58
189	AVVEKLGAFWTSIGRA	17.71	0.67	GWWEKLCVWGRVQSN	10.65	0.67	GWWEKLCVWGRVQSN	9.26	0.73	GWFEKLFNWGRVQSN	5.34	1.38
190	DFQRWKEGCVWVSKL	16.45	0.63	AEVNYKGAAGVRLNMMH	9.66	0.52	MPREKLCVWGRVQSN	7.73	0.61	GWWAKERAWGGTTHQR	5.26	1.36
191	LPRHRDTEVWVSKL	16.27	0.62	GWWEKLCVWGRVQSN	8.97	0.53	GWWEKLCVWGRVQSN	6.70	0.53	GWWEKLFNWGRVQSN	5.20	1.35
192	MKVEKACVWVSKL	13.74	0.52	DFVNWKGAAGVRLNMMH	8.80	0.52	GNWHRDSEVWVQSN	5.69	0.45	GWWEKLCVWGRVQSN	4.08	1.06
193	MPYHRDTEVWVSKL	10.64	0.41	GWDLRVCKEGLNMMH	6.67	0.39	GRFRDQEVWVQSN	5.00	0.40	CWRELLKAWWRDQDQHPA	3.81	0.99
194	MPRDRDTEVWDFIERK	8.91	0.34	GAVAKDVTLRQVQSN	4.42	0.26	GWWRMNVWGRVQSN	4.03	0.32	SWWEKLFNWGRVQSN	3.20	0.98
195	EKVEKLCVWGRVQSN	8.25	0.31	GWWEKLCVWGRVQSN	3.72	0.22	MPRFRDQTVWVQIHA	3.33	0.26	GEFQKLCVWGRVQSN	3.83	0.84
196	MPRHRDTEVWVSKL	6.57	0.25	MPRHRDTEVWVQSN	3.19	0.19	GWWEKLCVWGRVQSN	2.61	0.21	GWWEKLFNWGRVQSN	3.14	0.81
197	MPGHRDTEVWVQIHA	1.41	0.05	AEVNEKLCVWGRVQSN	2.07	0.12	CAWERCFTDGRQDQHPA	1.45	0.11	GWWEKLFNWGRVQSN	3.13	0.81
198	MPQHRATEVWVSKL	1.29	0.05	AEVNRDSE								

VWRLLLKAFWQLRQPG	71.63	2.73	DFQVWAGAFWQLRQPG	98.27	5.76	GWWEKLCVWGRQNMHG	102.85	8.15	GWWEKLFNFWNSRQPA	68.68	17.77
KKFFYYTGLFSGIDGC	71.41	2.72	VWRELLKAWGRLNMMH	96.53	5.66	CWWEKLCVWGRQNMHG	102.72	8.14	GWWEKLFNFWGRQNMHG	62.49	16.17
GDRAYGKVLMMFWDN	71.15	2.71	GWWEKLCVWVWNIHGC	96.48	5.65	GWWEKLCVWGRQNMHG	102.29	8.10	GWWEKLFVWGRQNMHF	56.30	14.57
LPKFFYYTGLFCSIKLG	69.34	2.64	VWWEKLCVWGRQNMHG	93.82	5.50	GWWEKLCVWGRQNMHG	97.77	7.75	GWWEKLFNLGRQNMFM	54.33	14.06
AKVEKACVWVSVKLG	67.71	2.58	GWWEKLCVWQRLRQSN	92.17	5.40	GWWEKLCVWGRQNMHG	97.58	7.73	GWWEKLFNANWGRQNMFM	51.03	13.20
DWFLKCVWVSVKLG	67.19	2.56	GWWEYLCVWGRQNMHG	91.29	5.35	GWWEKLCVWGRQNMHG	96.81	7.67	GWWEKLFNAGRQNMHCA	49.49	12.81
TINKAWTLNDFDFIGRK	67.05	2.55	GWWEKLCVWGRQNMHG	90.83	5.32	GWWEKLCVWGRQNMHG	93.45	7.40	GWWEKLFNFWGRQNMGA	47.98	12.41
DFERLKGAFWMMFWDN	66.71	2.54	GWWEKLCVWGRQNMHG	88.85	5.21	GWWEKLCVWGRQNMHG	91.28	7.23	CWRELLKAWWRDNCAM	47.30	12.24
VWRLLLKELWVSVKLG	63.07	2.40	GWWEKLCVWGRQNMHG	85.58	5.01	GWWEKLCVWGRQNMHG	90.75	7.19	GWWEKLFNFWGRQNMCA	45.85	11.86
DFRRLKGAIFSIYRF	61.44	2.34	AEVHRDSEVWVAVSKLG	83.73	4.91	GWWEKLCVWGRQNMHG	87.13	6.90	GWWEKLFNFWGRQNMCHM	40.84	10.57
GWWHRYGYIYVYVYRF	60.97	2.32	GWWEKLCVWGRQNMHG	78.55	4.60	GWWEKLCVWGRQNMHG	86.99	6.89	GWWEKLFNFWGRQNMCPA	39.48	10.22
AFVWMLKCVWVWYVYRF	52.60	2.00	GWWEKLCVWGRQNMHG	66.35	3.89	GWWEKLCVWGRQNMHG	83.21	6.59	GWWEKLFNFWGRQNMCPA	37.01	9.58
GWVYKGSFAVQVIGRC	52.22	1.99	AEVNWRFVWVAVSKLG	63.23	3.71	GWWEKLCVWGRQNMHG	81.97	6.49	GWWEKLFNFWGRQNMCHM	34.37	8.89
			GWWEKLCVWGRQNMMPA	59.88	3.51	GWWEKLCVWGRQNMHG	72.21	5.72	GWWEKLCVWGRQNMCHM	33.30	8.62

	Generation 7	x	c	Generation 8	x	c	Generation 9	x	c	Generation 10	x
1	TWWEKLFNFWGRQNMCA	121.83	34.42	SWWEKLFNFWGMLNMPK	72.31	46.38	SWWEKLFNFWGMLNMPK	72.20	62.77	SWWEKLFNFWGMLNMPK	81.11
2	QWWEKLFNFWGRQNMCA	108.20	30.57	KWWEKLFNFWGMLNMPK	68.43	43.89	NWWEKLFNFWGMLNMPK	68.73	59.75	SWWEKLFNFWGMLNMPK	79.08
3	GWWEKLFNFWGRQNMCA	107.42	30.35	GWWEKLFNFWGMLNMPK	66.38	42.58	GWWEKLFNFWGMLNMPK	66.58	57.88	SWWEKLFNFWGMLNMPK	75.49
4	GWWEKLFNFWGRQNMCA	102.30	28.90	GWWEKLFNFWGMLNMPK	64.40	41.31	KWWEKLFNFWGMLNMPK	66.42	57.75	NWWEKLFNFWGMLNMPK	73.76
5	GWWEKLFNFWGRQNMCA	100.32	28.34	NWWEKLFNFWGMLNMPK	59.83	38.38	NWWEKLFNFWGMLNMPK	65.09	56.59	KWWEKLFNFWGMLNMPK	73.33
6	GWWEKLFNFWGRQNMCA	99.27	28.04	SWWEKLFNFWGMLNMPK	57.43	36.84	GWWEKLFNFWGMLNMPK	64.21	55.82	SWWEKLFNFWGMLNMPK	71.05
7	GWWEKLFNFWGRQNMCA	98.45	27.81	SWWEKLFNFWGMLNMPK	56.39	36.17	KWWEKLFNFWGMLNMPK	59.69	51.89	SWWEKLFNFWGMLNMPK	68.79
8	EWWEKLFNFWGRQNMCA	96.55	27.28	RWWEKLFNFWGMLNMPK	55.55	35.63	GWWEKLFNFWGMLNMPK	57.08	49.63	SWWEKLFNFWGMLNMPK	66.55
9	SWWEKLFNFWGRQNMCA	96.48	27.26	SWWEKLFNFWGMLNMPK	55.44	35.56	TWWEKLFNFWGMLNMPK	56.94	49.50	TWWEKLFNFWGMLNMPK	66.22
10	GWWEKLFNFWGRQNMCA	96.35	27.22	TWWEKLFNFWGMLNMPK	54.69	35.08	CWWEKLFNFWGMLNMPK	56.85	49.25	KWWEKLFNFWGMLNMPK	65.61
11	SWWEKLFNFWGRQNMCA	95.18	26.89	CWWEKLFNFWGMLNMPK	54.66	35.06	GWWEKLFNFWGMLNMPK	56.27	48.92	TWWEKLFNFWGMLNMPK	63.73
12	GWWEKLFNFWGRQNMCA	94.50	26.70	SWWEKLFNFWGMLNMPK	53.47	34.30	GWWEKLFNFWGMLNMPK	56.19	48.85	GWWEKLFNFWGMLNMPK	63.22
13	EWWEKLFNFWGRQNMCA	94.33	26.65	GWWEKLFNFWGMLNMPK	53.42	34.27	TWWEKLFNFWGMLNMPK	55.12	47.92	SWWEKLFNFWGMLNMPK	62.57
14	SWWEKLFNFWGRQNMCA	93.31	26.36	GWWEKLFNFWGMLNMPK	53.39	34.25	SWWEKLFNFWGMLNMPK	55.04	47.85	GWWEKLFNFWGMLNMPK	59.83
15	GWWEKLFNFWGRQNMCA	92.78	26.21	GWWEKLFNFWGMLNMPK	53.27	34.17	SWWEKLFNFWGMLNMPK	54.62	47.48	TWWEKLFNFWGMLNMPK	59.75
16	GWWEKLFNFWGRQNMCA	92.32	26.08	CWWEKLFNFWGMLNMPK	52.92	33.95	GWWEKLFNFWGMLNMPK	54.34	47.24	GWWEKLFNFWGMLNMPK	59.66
17	CWWEKLFNFWGRQNMCA	92.11	26.02	GWWEKLFNFWGMLNMPK	52.49	33.67	SWWEKLFNFWGMLNMPK	54.20	47.12	SWWEKLFNFWGMLNMPK	59.52
18	GWWEKLFNFWGRQNMCA	91.74	25.92	SWWEKLFNFWGMLNMPK	50.72	32.54	GWWEKLFNFWGMLNMPK	54.17	47.10	NWWEKLFNFWGMLNMPK	59.50
19	GWWEKLFNFWGRQNMCA	91.45	25.84	TWWEKLFNFWGMLNMPK	50.55	32.43	TWWEKLFNFWGMLNMPK	53.33	46.37	CWWEKLFNFWGMLNMPK	58.00
20	GWWEKLFNFWGRQNMCA	91.37	25.81	TWWEKLFNFWGMLNMPK	50.41	32.34	SWWEKLFNFWGMLNMPK	53.22	46.27	GWWEKLFNFWGMLNMPK	57.64
21	CWWEKLFNFWGRQNMCA	91.05	25.72	DWWEKLFNFWGMLNMPK	50.39	32.32	GWWEKLFNFWGMLNMPK	52.70	45.81	KWWEKLFNFWGMLNMPK	56.84
22	SWWEKLFNFWGRQNMCA	89.17	25.19	GWWEKLFNFWGMLNMPK	49.93	32.03	SWWEKLFNFWGMLNMPK	52.55	45.68	SWWEKLFNFWGMLNMPK	56.25
23	GWWEKLFNFWGRQNMCA	88.43	24.98	SWWEKLFNFWGMLNMPK	49.59	31.81	GWWEKLFNFWGMLNMPK	52.45	45.60	NWWEKLFNFWGMLNMPK	56.15
24	QWWEKLFNFWGRQNMCA	87.94	24.84	GWWEKLFNFWGMLNMPK	49.45	31.72	CWWEKLFNFWGMLNMPK	52.12	45.31	NWWEKLFNFWGMLNMPK	55.92
25	GWWEKLFNFWGRQNMCA	87.61	24.75	GWWEKLFNFWGMLNMPK	49.44	31.71	SWWEKLFNFWGMLNMPK	51.24	44.55	TWWEKLFNFWGMLNMPK	55.73
26	GWWEKLFNFWGRQNMCA	87.45	24.71	YWWEKLFNFWGMLNMPK	49.28	31.61	QWWEKLFNFWGMLNMPK	51.22	44.53	SWWEKLFNFWGMLNMPK	55.57
27	GWWEKLFNFWGRQNMCA	86.85	24.53	GWWEKLFNFWGMLNMPK	49.27	31.60	SWWEKLFNFWGMLNMPK	50.90	44.25	GWWEKLFNFWGMLNMPK	55.51
28	GWWEKLFNFWGRQNMCA	86.31	24.38	GWWEKLFNFWGMLNMPK	48.60	31.17	NWWEKLFNFWGMLNMPK	50.21	43.65	SWWEKLFNFWGMLNMPK	54.99
29	EWWEKLFNFWGRQNMCA	86.11	24.33	QWWEKLFNFWGMLNMPK	48.54	31.13	SWWEKLFNFWGMLNMPK	50.15	43.60	TWWEKLFNFWGMLNMPK	54.75
30	GWWEKLFNFWGRQNMCA	84.97	24.00	QWWEKLFNFWGMLNMPK	48.42	31.06	GWWEKLFNFWGMLNMPK	49.96	43.44	NWWEKLFNFWGMLNMPK	54.69
31	CWWEKLFNFWGRQNMCA	83.71	23.65	GWWEKLFNFWGMLNMPK	48.20	30.92	SWWEKLFNFWGMLNMPK	49.38	42.93	SWWEKLFNFWGMLNMPK	54.05
32	GWWEKLFNFWGRQNMCA	83.06	23.46	SWWEKLFNFWGMLNMPK	48.10	30.85	NWWEKLFNFWGMLNMPK	49.32	42.88	NWWEKLFNFWGMLNMPK	53.82
33	GWWEKLFNFWGRQNMCA	82.23	23.23	GWWEKLFNFWGMLNMPK	48.06	30.83	GWWEKLFNFWGMLNMPK	48.93	42.54	TWWEKLFNFWGMLNMPK	53.67
34	GWWEKLFNFWGRQNMCA	81.79	23.11	QWWEKLFNFWGMLNMPK	47.17	30.26	SWWEKLFNFWGMLNMPK	48.33	42.02	TWWEKLFNFWGMLNMPK	52.92
35	GWWEKLFNFWGRQNMCA	81.70	23.08	GWWEKLFNFWGMLNMPK	46.96	30.12	NWWEKLFNFWGMLNMPK	48.14	41.85	SWWEKLFNFWGMLNMPK	52.82
36	QWWEKLFNFWGRQNMCA	81.69	23.08	GWWEKLFNFWGMLNMPK	46.76	29.99	SWWEKLFNFWGMLNMPK	48.13	41.84	KWWEKLFNFWGMLNMPK	52.71
37	GWWEKLFNFWGRQNMCA	81.46	23.01	SWWEKLFNFWGMLNMPK	46.61	29.90	SWWEKLFNFWGMLNMPK	47.84	41.59	KWWEKLFNFWGMLNMPK	51.48
38	GWWEKLFNFWGRQNMCA	80.98	22.88	SWWEKLFNFWGMLNMPK	46.51	29.84	TWWEKLFNFWGMLNMPK	47.84	41.59	GWWEKLFNFWGMLNMPK	51.09
39	GWWEKLFNFWGRQNMCA	80.81	22.83	GWWEKLFNFWGMLNMPK	46.49	29.82	RWWEKLFNFWGMLNMPK	47.79	41.55	SWWEKLFNFWGMLNMPK	51.08
40	GWWEKLFNFWGRQNMCA	79.88	22.57	GWWEKLFNFWGMLNMPK	46.21	29.64	YWWEKLFNFWGMLNMPK	47.57	41.35	NWWEKLFNFWGMLNMPK	51.02
41	GWWEKLFNFWGRQNMCA	79.83	22.55	CWWEKLFNFWGMLNMPK	45.88	29.43	SWWEKLFNFWGMLNMPK	47.24	41.07	SWWEKLFNFWGMLNMPK	50.86
42	GWWEKLFNFWGRQNMCA	79.67	22.51	GWWEKLFNFWGMLNMPK	45.86	29.42	TWWEKLFNFWGMLNMPK	46.99	40.85	KWWEKLFNFWGMLNMPK	50.39
43	GWWEKLFNFWGRQNMCA	79.40	22.43	EWWEKLFNFWGMLNMPK	45.68	29.30	GWWEKLFNFWGMLNMPK	46.77	40.66	SWWEKLFNFWGMLNMPK	50.24
44	GWWEKLFNFWGRQNMCA	79.35	22.42	GWWEKLFNFWGMLNMPK	45.65	29.28	TWWEKLFNFWGMLNMPK	46.14	40.11	GWWEKLFNFWGMLNMPK	50.22
45	GWWEKLFNFWGRQNMCA	79.02	22.32	GWWEKLFNFWGMLNMPK	45.64	29.28	SWWEKLFNFWGMLNMPK	45.63	39.67	GWWEKLFNFWGMLNMPK	50.18
46	GWWEKLFNFWGRQNMCA	78.81	22.26	GWWEKLFNFWGMLNMPK	45.58	29.24	GWWEKLFNFWGMLNMPK	45.50	39.56	CWWEKLFNFWGMLNMPK	49.58
47	QWWEKLFNFWGRQNMCA	78.67	22.22	SWWEKLFNFWGMLNMPK	45.53	29.20	GWWEKLFNFWGMLNMPK	45.39	39.46	TWWEKLFNFWGMLNMPK	49.55
48	GWWEKLFNFWGRQNMCA	78.63	22.21	GWWSKLFNFWGMLNMPK	45.48	29.17	SWWEKLFNFWGMLNMPK	45.18	39.28	SWWEKLFNFWGMLNMPK	49.38
49	GWWEKLFNFWGRQNMCA	78.09	22.06	EWWEKLFNFWGRDAPK	45.48	29.17	TWWEKLFNFWGMLNMPK	45.09	39.20	TWWEKLFNFWGMLNMPK	49.12
50	CWWEKLFNFWGRQNMCA	77.46	21.88	LWWEKLFNFWGRQNMCA	45.21	29.00	GWWEKLFNFWGMLNMPK	43.95	38.21	GWWEKLFNFWGMLNMPK	49.01
51	GWWEKLFNFWGRQNMCA	77.32	21.84	GWWEKLFNFWGRQNMCA	44.75	28.70	GWWEKLFNFWGMLNMPK	43.67	37.97	GWWEKLFNFWGMLNMPK	48.96
52	GWWEKLFNFWGRQNMCA	77.23	21.82	GWWEKLFNFWGRQNMCA	44.14	28.32	CWWEKLFNFWGMLNMPK	42.96	37.35	KWWEKLFNFWGMLNMPK	48.88
53	KWWEKLFNFWGRQNMCA	77.09	21.78	SWWEKLFNFWGRQNMCA	43.12	27.66	SWWEKLFNFWGMLNMPK	42.95	37.34	CWWEKLFNFWGMLNMPK	48.68
54	GWWEKLFNFWGRQNMCA	76.93	21.73	SWWEKLFNFWGRQNMCA	43.08	27.64	GWWEKLFNFWGMLNMPK	42.72	37.14	GWWEKLFNFWGMLNMPK	48.67
55	GWWEKLFNFWGRQNMCA	76.85	21.71	TWWEKLFNFWGMLNMPK	42.99	27.58	SWWEKLFNFWGMLNMPK	42.62	37.05	NWWEKLFNFWGMLNMPK	48.60
56	GWWEKLFNFWGRQNMCA	76.77	21.69	CWWEKLFNFWGMLNMPK	42.89	27.51	NWWEKLFNFWGMLNMPK	42.29	36.77	SWWEKLFNFWGMLNMPK	48.51
57	GWWEKLFNFWGRQNMCA	76.63	21.65	SWWEKLFNFWGRQNMCA	42.85	27.48	GWWEKLFNFWGMLNMPK	42.24	36.72	KWWEKLFNFWGMLNMPK	47.27
58	GWWEKLFNFWGRQNMCA	76.03	21.48	GWWEKLFNFWGMLNMPK	42.70	27.39	TWWEKLFNFWGMLNMPK	42.22	36.70	SWWEKLFNFWGMLNMPK	47.23
59	GWWEKLFNFWGRQNMCA	75.97	21.46	EWWEKLFNFWGMLNMPK	42.64	27.35	RWWEKLFNFWGMLNMPK	42.10	36.60	GWWEKLFNFWGMLNMPK	47.04
60	GWWEKLFNFWGRQNMCA	75.66	21.37	SWWEKLFNFWGMLNMPK	42.62	27.34	SWWEKLFNFWGMLNMPK	41.21	36.09	KWWEKLFNFWGMLNMPK	46.60
61	GWWEKLFNFWGRQNMCA	75.35	21.29	GWWEKLFNFWGRQNMCA	42.39	27.19	SWWEKLFNFWGMLNMPK	41.52	35.83	GWWEKLFNFWGMLNMPK	46.23
62	GWWEKLFNFWGRQNMCA	75.03	21.20	GWWEKLFNFWGRQNMCA	42.36	27.17	RWWEKLFNFWGRQNMCA	40.64	35.33	SWWEKLFNFWGMLNMPK	45.91
63	GWWEKLFNFWGRQNMCA	74.83	21.14	TWWEKLFNFWGRQNMCA	42.31	27.14	SWWEKLFNFWGRQNMCA	40.44	35.16	NWWEKLFNFWGMLNMPK	45.37
64	GWFEKLFNFWGRQNMCA	74.73	21.11	QWWEKLFNFWGRQNMCA	42.21	27.07	SWWEKLFNFWGRQNMCA	40.44	35.15	SWWEKLFNFWGMLNMPK	45.30
65	SWWEKLFNFWGRQNMCA	74.69	21.10	GWWEKLFNFWGMLNMPK	41.88	26.86	SWWEKLFNFWGMLNMPK	40.43	35.15	KWWEKLFNFWGMLNMPK	44.96
66	GWWEKLFNFWGRQNMCA	74.67	21.10	CWWEKLFNFWGRDNGM	41.78	26.80	GWWEKLFNFWGMLNMPK	39.71	34.52	GWWEKLFNFWGMLNMPK	44.95
67	GWWEKLFNFWGRQNMCA	74.49	21.04	GWWEKLFNFWGMLNMPK	41.61	26.69	GWWEKLFNFWGMLNMPK	39.58	34.41	SWWEKLFNFWGMLNMPK	44.69
68	GWWEKLFNFWGRQNMCA	74.45	21.03	TWWEKLFNFWGRQNMCA	41.55	26.65	GWWEKLFNFWGMLNMPK	39.36	34.22	TWWEKLFNFWGMLNMPK	44.59
69	SWWEKLFNFWGRQNMCA	74.11	20.94	EWWEKLFNFWGRQNMCA	41.48	26.61	YWWEKLFNFWGRDNGM	39.30	34.17	GWWEKLFNFWGMLNMPK	44.15
70	GWWEKLFNFWGRQNMCA	73.27	20.70	CWWEKLFNFWGRQNMCA	41.23	26.45	CWWEKLFNFWGRQNMCA	39.01	33.91	SWWEKLFNFWGMLNMPK	44.15
71	GWWEKLFNFWGRQNMCA	73.16	20.67	GWWEKLFNFWGRQNMCA	41.19	26.42	GWWEKLFNFWGMLNMPK	3			

77	GWWEKLFNWGNMNMHY	71,17	20,11	SWWEKLFNWGCVLMHA	40,38	25,90	SWWEKLFNVVGNQDPK	37,40	32,51	GWWEKLFNWGMNDQHM	42,39
78	GWWEKLFNWGRENGCE	70,82	20,01	TWWSKLFNWVGNQDPK	40,29	25,85	SWWTKLFNWGCSCQPK	37,37	32,49	NWWEKLFNWGRNTQPA	42,07
79	YWWEKLFNWGRQEQPA	70,72	19,98	GWWEKLFNWGMNMG	39,93	25,61	NWWEKLFNWQRDNMG	37,23	32,37	CWWEKLFNWGCQNTHC	41,39
80	GWWEKLFNWGRQDQPK	70,63	19,95	GWWEKLFNWGRQDQPK	39,93	25,61	GWWEKLFNWGRQDQPK	37,22	32,35	NWWEKLFNWGMNDQHM	41,36
81	GWWEKLFNWGRQGGTA	70,57	19,94	CWWEKLFNWGMVNMHA	39,90	25,59	GWWEKLFNWGMNMAK	37,20	32,34	NWWEKLFNWGMNDQHM	41,32
82	GWWEKLFNWGRQOQTA	70,34	19,87	GWWEKLFNWVWQNGHN	39,81	25,53	YWWEKLFNWGRQOQHM	37,15	32,30	NWWEKLFNWVWQDQPK	40,73
83	GWWEKLFNLYCQNPQM	69,92	19,75	TWWTKLFNLGCQNPQE	39,78	25,52	SWWEKLANWCMNMG	36,98	32,15	GWWDKLFNFGCQNPQK	39,99
84	GWWEKLFNWGRQDQPK	69,91	19,75	GWWEKLFNLGCQNPQE	39,63	25,42	GWWEKLFNSGRQDQPK	36,93	32,11	SWWEKLFNWGMNDQHM	39,85
85	GWWEKLFNWGRQNMHF	69,88	19,74	EWWEKLFNWGMQNGNG	39,56	25,38	SWWSKLFNDGQOQNTL	36,62	31,84	GWWEKLFQFGMNDQHM	39,44
86	GWWEKLFQWVGNQOQA	69,15	19,53	TWWEKLFNWGCNSQPK	39,55	25,37	TWWEKLFYSGRQOQHM	36,44	31,68	SWWEKLFQFGMNDQHM	39,40
87	NWWEKLFNWGRQEQPA	69,00	19,49	GWWEKLFNWGRQOQTT	39,44	25,30	SWWEKLFQGRDNMG	36,09	31,38	KWWEKLFNWVWQDQPK	39,28
88	GWWEKLFNWGRQVQPA	68,92	19,47	SWWKKLFNWGDLMNHG	39,41	25,28	SFWEKLFNWGMNMPK	35,94	31,25	GWWEKLFNDGFRNMHG	38,93
89	GWWEKLFNWGMNDGG	68,58	19,37	TWWSKLFNWGSQEQPA	39,35	25,24	KWWEKLFNWGRNMGV	35,87	31,18	GWWEKLFNDGFLNMHG	38,92
90	GWWEKLFNWGLRNGHG	68,02	19,22	GWWEKLFWSGMEDQPK	39,15	25,11	KWWEKLFNWGRNMGH	35,77	31,09	GWWEKLFNWGMNDQHM	38,90
91	SWWEKLFNYGRQOQPA	67,36	19,03	QWWEKLFNWGRQEQPA	38,90	24,95	KWWEKLFNWGMNMGH	35,54	30,90	GWWEKLFNWNMGDQPK	38,87
92	GWWEKLFNLRDNGHG	67,26	19,00	GWWEKLLGWGRQOQPA	38,77	24,87	TWWEKLFNWGMNMG	35,53	30,89	KWWEKLFCDGFLNMHG	38,64
93	GWWEKLFNSGRQOQTA	67,08	18,95	GWWEKLFNWGMQNGHG	38,30	24,57	LWWEKLFNSGRQDQPK	35,45	30,82	LWWEKLFNWGMNDQHM	38,14
94	GWWEKLFNWGRQOQPA	66,90	18,90	GWWEKLFNFGCQOQHM	37,76	24,22	CWWEKLFNWGMNMGH	35,30	30,69	SWWEKLFNFGMNDQHM	37,54
95	GWWEKLFNWGRSNMHH	66,43	18,77	CWWEKLFWCGRQOQPK	37,64	24,15	CWWEKLFNWGMNDQPK	35,20	30,60	GWWEKLFNWVWQDQPK	36,96
96	GWWEKLFNGRQNMHF	65,92	18,62	CWWEKLFNWGMQNGHK	37,25	23,90	GWWEKLFNGRQEQQA	35,07	30,49	GWWEKLFYGCQOQGLG	36,57
97	QWWSKLFNLGCQNPQM	65,61	18,54	GWWEKLFNWVGNQOQA	36,82	23,62	NWWEKLFDFEQOQHM	34,87	30,31	GWWEKLFNWGMNDQHM	36,26
98	GWWEKLFNWGRQNGHG	65,55	18,52	FWWEKLFNWGRQNGCG	36,55	23,45	YWWEKLFNWGMNMGH	34,58	30,06	GWWEKLFYGCQOQGLG	35,71
99	SWWEKLFNWGMNMGH	65,12	18,40	TWWEKLFNWGMQNGHG	36,36	23,32	SWWEKLFNWGMNMGH	34,47	29,97	GWWTKLFNWGMNDQHM	35,38
100	GWWDKLFNWGRQEQPA	65,08	18,38	GSWEKLFNWGRDNMG	36,31	23,29	GWWEKLFNGCQOQPA	34,43	29,93	GWWEKLFNWVWQDQPK	35,32
101	GWWEKLFNWGRQOQPA	65,08	18,38	GWWEKLFNWGRQOQPA	36,31	23,29	GWWEKLFNWDMEEQPK	34,41	29,92	GWWEKLFYGCQOQGLG	35,02
102	GWWEKLFNWGRQOQPA	63,92	18,06	GWWEKLFNWGRQEQPA	36,30	23,28	DWWEKLFNWGRQDQPK	34,08	29,62	GWWEKLFQWDCQOQHM	34,77
103	GWWEKLFNWGMNMGH	63,68	17,99	SWWEKLFNWVGNQOQHM	36,22	23,23	GWWEKLFNWGMNMGH	34,06	29,61	GWWEKLFNWGMNDQHM	34,58
104	GWWEKLFNWVGNQOQA	63,41	17,91	EWWEKLFNWGRQEQPA	36,00	23,09	SWWEKLFNWGMNMGH	33,82	29,40	NWWEKLFNWGMNDQHM	34,52
105	GWWEKLFNWGRQDQPK	63,01	17,80	QWWEKLFNWGRQOQPA	35,09	22,51	KWWEKLFNWGRQOQHM	33,03	28,72	GWWDKLFNWGMNDQHM	34,44
106	QWWSKLFNWGRQDQPK	62,72	17,72	GWWEKLFNWGRDNMG	35,02	22,46	KWWEKLFNWGRQEQQA	32,95	28,65	GWWEKLFQGCQOQGLG	34,21
107	GWWEKLFNWGRQOQTA	62,44	17,64	QWWEKLFNWGRQNGCG	34,82	22,33	GWWDKLFNWGMNMGH	32,92	28,62	GWWEKLFYGCQOQGLG	33,81
108	GWWEKLFNWGRQOQTA	62,30	17,60	GWWEKLFNWGRQOQHM	34,71	22,27	GWWEKLFNWGRQOQHM	32,31	28,09	GWWEKLFNWGMNDQHM	33,66
109	GWWEKLFNLGCQNPQM	61,90	17,49	SWWEKLFNWVGRQOQA	34,27	21,98	TWWEKLFNWGMNMGH	32,14	27,94	GWWEKLFNFGMNDQHM	33,53
110	GWWEKLFNWVGNQOQA	61,75	17,44	RWWEKLFNWGRQNGHG	34,24	21,96	SWWEKLFNWGRQOQHM	32,01	27,83	SWWEKLFNWGRQOQPA	33,49
111	GWWEKLFNWGRQOQPA	61,24	17,30	GWWEKLFNWGRQOQPA	34,16	21,91	SWWEKLFNWGRQOQHM	31,89	27,73	SWWEKLFNWGRQOQPK	33,33
112	GWWEKLFNWGMNMGH	61,22	17,29	GWWEKLANWGRQOQHM	34,07	21,86	GWWEKLFNWGMNMGH	31,01	26,96	CWWEKLFNWGMNDQPK	33,32
113	DWWEKLFNWGMNMGH	60,90	17,20	GWWEKLFNWGMNMGH	33,96	21,79	NAWWEKLFNWGMNMGH	30,91	26,87	DWWEKLFNWGMNDQPK	33,31
114	AWWEKLFNAGRSNMHG	60,79	17,17	GWWEKLFNWGRDNMG	33,92	21,76	SWWEKLFNWGRQOQPK	30,81	26,79	DWWEKLFNFGMNDQHM	33,21
115	QWWEKLFNAGRSNMHG	60,38	17,06	GWWEKLFNWGMNMGH	33,58	21,54	SWWEKLFNWGMNMGH	30,80	26,77	EWWEKLFNWGRQOQPA	33,11
116	GWWEKLFNWGRQOQPA	60,11	16,98	CWWEKLFNWGRQOQPK	33,58	21,54	GWWEKLFNWGRQOQPA	30,56	26,57	KWWDKLFNWGMNDQPK	33,02
117	GWWEKLFNWGRQOQPA	59,94	16,93	SWWEKLFNWGMNMGH	33,31	21,37	SWWEKLFNWVGNQOQA	30,47	26,49	LWWEKLFNWGMNDQPK	33,00
118	GWWEKLFNWGRQEQPA	59,88	16,92	GWWEKLFNWGRQEQPA	33,23	21,32	SSWEKLFNWGMEDQPK	30,32	26,36	KWWEKLFYGCQOQGLG	32,92
119	GWWEKLFNWGRQOQTA	59,84	16,91	GWWEKLFNWGRQOQTA	32,88	21,09	YWWEKLFNWGRQOQHM	30,27	26,32	GWWEKLFNWGMNDQHM	32,13
120	GWWEKLFNAGMNDGG	59,63	16,85	GWWEKLFNWGRDNMG	31,97	20,51	SWWEKLFNWGRQOQHM	30,25	26,30	GWWEKLFNFGMNDQHM	31,23
121	GWWEKLFNWGRQOQPK	59,01	16,67	GWWEKLFWCGRQOQPK	31,72	20,34	NWWEKLFNWGMNMGH	30,22	26,27	SWWEKLFYGCQOQGLG	30,76
122	RWWEKLFNWGRQOQTA	58,95	16,65	GWWEKLANWGRQEQPA	31,45	20,17	MLWEKLFNFGCQOQHM	30,14	26,20	GWWDKLFNWGMNDQHM	30,09
123	GWWEKLFNWGRDNMG	58,72	16,59	SWWTKLFNWGRQOQPA	31,28	20,06	KWWEKLFNFGCQOQHM	30,11	26,17	GWWDKLFNWGMNDQHM	30,05
124	GWWEKLFNWGMNMGH	57,74	16,31	GWWEKLFNWGRQOQPA	31,19	20,01	GWWDKLFNWGRQOQPK	30,08	26,15	CWWEKLFNWGMNDQHM	29,56
125	GWWEKLFNWGRQOQTA	57,13	16,14	GWWEKLFNWGMQNGHG	31,10	19,95	SWWEKLFNWGRQOQHM	29,98	26,06	KWWEKLFNWGMNDQHM	29,52
126	GWWEKLFNWGRQEQPA	57,01	16,10	TWWEKLFNWGRQOQHM	31,01	19,89	KWWEKLFNWGMNMGH	29,83	26,06	SWWDKLFNWGMNDQPK	29,17
127	CWWEKLFNWGRDNMG	55,29	15,62	GWWNKLFNFGCQOQHA	30,99	19,88	GWWEKLFNWGRQEQQA	29,46	25,61	GWWEKLFNWGRQOQHM	28,53
128	GWWEKLFNWGMNMGH	54,76	15,47	QWWEKLFNWGRQOQPA	30,85	19,79	KWWEKLFNWGRQOQHM	29,05	25,26	GFWEKLFNWGMNDQPK	28,52
129	GWWDKLFNWGRQOQTA	54,64	15,43	QWWEKLFNWGRQOQPA	30,57	19,61	YWWEKLFNWGRQOQHM	28,76	25,00	SWWTKLFNWGRQOQPK	28,19
130	SWWEKLFNWGRQOQPA	54,14	15,30	EWWEKLFNWGRQEQPA	29,36	18,83	GWWEKLFNWGRQOQPK	28,01	24,35	GWWEKLFNWGMNDQHM	27,87
131	SWWEKLFNWGRQOQPA	54,01	15,26	CWWEKLFNWGRQOQPK	29,19	18,73	GWWEKLFNWGRQOQHM	27,24	23,68	SWWEKLFNWGRQOQHM	27,59
132	GWWEKLFNWGRQOQTA	53,57	15,13	TWWEKLFNFGCQOQHM	28,95	18,57	GWWEKLFNWGMNMGH	26,88	23,37	SWWDKLFNWGMNDQPK	27,35
133	GWWEKLFNAGRSNMHG	51,93	14,67	GWWEKLFNFGCQOQPK	28,68	18,39	KWWEKLFNWGRQOQHA	26,31	22,87	KWWEKLFYGCQOQGLG	27,10
134	SWWEKLFNWGMNMGH	51,09	14,43	GWWEKLFNWGRQOQPK	28,08	18,01	GWWEKLFNWGRQOQHM	26,02	22,62	SWWEKLFNWGMNDQHM	26,86
135	GWWEKLFNGRQNMHF	50,69	14,32	QWWEKLFNWGMQNGHG	27,92	17,91	GWWEKLFNWGRQOQPK	26,00	22,60	NWWEKLFNFGCQOQHM	26,75
136	GWWEKLFNLAGCQNPQM	50,66	14,31	GWWEKLFNWGMNDGG	27,89	17,89	GWWEKLFNWGMEDQPK	25,62	22,27	TWWEKLFNWGMNMGH	26,40
137	GWWEKLFNLAGCQNPQM	50,54	14,28	EWWDKLFNWGRQOQPK	27,39	17,57	CWWEKLFNFGCQOQHM	25,56	22,22	GWWEKLFNWGMNDQHM	25,90
138	GWWEKLFNWGRQOQPA	49,95	14,11	SWWEKLFNWGRQOQPK	27,13	17,40	DWWEKLFNWGRQOQHM	24,44	21,24	YWWEKLFNWGMNDQHM	25,67
139	GWWEKLFNWGRQOQHM	49,81	14,07	DWWEKLFNWGRQOQPA	26,98	17,31	GWWEKLFNWGRQOQPK	24,42	21,23	KWWEKLFNWGMNDQPK	25,55
140	YWWEKLFNWGMNMGH	49,60	14,01	SWWTKLFNWGRQOQTA	26,96	17,29	GAWEKLFNWGRQOQHM	23,92	20,80	GWWEKLFNWGRQOQHM	25,05
141	GWWEKLFNWGRQOQHM	49,10	13,87	EWWEKLFNWGRQOQPA	26,77	17,17	GWWEKLFNFGCQOQHM	23,82	20,70	NWWEKLFNWGMNDQHM	24,56
142	GWWEKLFNWGRQOQPA	47,53	13,43	QWWSKLFNWGRQOQPA	25,25	16,20	RWWEKLFNWGRQOQPK	23,16	20,14	SWWEKLFNWGRQOQPK	23,97
143	QWWEKLFNWGRQOQTA	47,01	13,28	GWWNKLFNFGCQOQHM	25,18	16,15	NWWEKLFNWGRQOQHM	22,77	19,79	KWWEKLFNFGMNDQPK	23,76
144	GWWEKLFNWGRQEQPA	46,94	13,26	GDWEKLFNWGRQOQHM	24,80	15,91	QWWEKLFNWGMNMGH	22,50	19,56	GWWEKLFYGCQOQGLG	23,15
145	SWWEKLFNWGRQOQPA	46,59	13,16	EWWEKLFNWGMNMGH	23,11	14,82	NAWWEKLFNWGMNMGH	22,19	19,29	GWWEKLFNWGRQOQHM	22,66
146	GWWEKLFNWGRQOQPK	46,30	13,08	EWWEKLFNWGRQEQPA	22,62	14,51	GWWEKLFNFGCQOQHM	21,43	18,63	GWWDKLFNFGCQOQHA	22,59
147	DWWEKLFNWGRQOQPK	45,83	12,95	SWWEKLFNWGRQEQPA	22,07	14,16	SWWEKLFNWGMNMGH	21,12	18,36	SWWEKLFNWGMNDQPK	22,21
148	GWWEKLFNWGRQOQPA	44,30	12,52	GDWEKLFNWGRQEQPA	21,19	13,59	KTWEKLFNFGCQOQHM	20,84	18,11	SWWEKLFNFGMNDQHM	21,98
149	GWWSKLFNWGRQNMHA	44,17	12,48	EKWEKLFNWGRDNMG	21,12	13,55	CRWEKLFNWGMNMGH	20,24	17,60	SAWEKLFNFGMNDQHM	21,58
150	GWWEKLFNWGRQOQHM	43,74	12,36	GWWEKLFNWGMNMGH	20,61	13,22	SWWTKLFNWGRQOQPA	20,22	17,58	TEWEKLFNWGRQOQPK	21,31
151	GWWEKLFNWGRQOQPA	43,32	12,24	GWWEKLFNWGRQOQHM	20,15	12,92	GWWEKLFNFGCQOQHM	19,92	17,31	GWWEKLFNWGMNDQHM	21,21
152	GWWEKLFNLAGCQNPQM	42,68	12,06	GWWEKLFYFGRQOQPA	19,84	12,73	RTWEKLFNWGRQOQHM	19,66	17,09	TWWDKLFNWGMNDQHM	20,97
153	SWWEKLFNWGRQOQTA	40,63	11,48	GWWEKLFNWGRQOQHM	19,59	12,57	TWWEKLFNWGRQEQQA	19,54	16,99	GNWEKLFNWGRQOQHA	20,93
154	GWWEKLFNWGRQOQHM	40,48	11,44	GWWEKLFNWGRQOQPK	19,35	12,41	TWWEKLFNWGRQOQHM	19,31	16,79	GWWEKLFNWGMNDQPK	20,68
155	QWWDKLFNWGRQOQTA	39,65	11,20	GWWEKLFNWGRQOQPA	19,12	12,26	GAWEKLFNWGRDNMG	17,74	15,42	EWWEKLFNWGMNDQHA	20,17
156	GSWEKLFNWGRQOQHM	39,45	11,15	EWWEKLFNWGCNSQPK	17,85	11,45	SAWEKLFNWGCSCQPK	17,00	14,78	CWWEKLFNWGMNDQHM	19,03
157	GWWEKLFNWGRQOQHM	39,34	11,11	GWWEKLFNWGRQEQQA	17,71	11,36	GWWEKLFNWVGNQOQA	16,79	14,59	AWWNYFNDGQOQHM	18,06
158	SSWEKLFNWGRQOQPA	36,57	10,33	GWWEKLFNWGRQOQPK	17,25	11,06	TWWEKLFNFGCQOQHM	16,57	14,40	NWWEKLFNWGMNDQHM	16,78
159	GWWEKLFNWGRQOQPK	36,43	10,29	GWWEKLFNWGMNMGH	16,99	10,90	YWWEKLFNWGRQOQHM	16,55	14,39	GWWTNLENNRQOQPK	16,74
160	GWWEKLFNWGRSNMHH	35,55	10,04	GWWEKLFWCGRQOQPK	16,13	10,34	GWWEKLFNFGCQOQHM	16,35	14,21	VWWEKLFNWGMNDQPK	15,73
161	GWWEKLFNAGRSNMHTA	35,08	9,91	SWWEKLFNWGRQOQPK	13,79	8,85	SEWEKLFNWGMNMGH	16,11	14,01	NWWEKLFNWGMNDQHM	15,46
162	GWWEKLFNWGRQOQHM	29,30	8,28	TWWEKLFNFGCQOQPA	13,13	8,42	SWWEKLFNWVYVQDQPK	15,99	13,90	GWWEKLFNDGFLNMHG	15,22
163	GWWEKLFNWGRQOQPK	29,25	8,26	QWWEKLFNFGCQOQPA	13,09	8,39	RWWEKLFNWGRQOQPA	15,79	13,73	GWWDKLFNAGMNDQHA	14,62
164	GWWEKLFNWGRQOQPA	29,17	8,24	GWWEKLFNLAGCQNPQM							

173	GRWEKLFNWGRQNGHG	19.98	5.64	SWWEKGFNWGCSNQPK	10.87	6.97	GWNEKLFNWGMLNMHG	8.32	7.23	GWWDKSFNWYQCNLTL	6.98
174	GWWEVLFNWSRQEQPA	18.58	5.25	GWYEKLFWDGMDNGMG	10.32	6.62	SWWEKCFNWRGRGVMG	7.29	6.33	CWWEKLNWNMGVAQST	6.19
175	GWWEKRFNWGMLNMHG	16.90	4.77	GWQEKLFNWGRQOQPK	10.25	6.58	CWWEKMFNWGCSEQPK	6.33	5.50	GWWEKAFNWGMNDQHM	5.70
176	GWWEVLFNWSRQEQPA	16.50	4.66	GWWEKGFNWGRDNGHM	10.14	6.50	TWWEKSFNWGVDNMG	6.32	5.49	CMWEKLFNYYGGQNGR	4.96
177	GWWEKMFNWGMLNMHG	13.08	3.70	GWKEKLFNWGMLNMHG	9.65	6.19	GWQDKLFNWGCSOQPK	6.16	5.35	GWWEKFNWGMQOQPK	4.89
178	SWWEKLFNWGRDNGHG	12.87	3.63	GWWFKRFNWGMLNMGG	9.52	6.11	SWGEKLFNVVKQNGHN	5.71	4.96	GWWEKFSNQGMMDSPPK	4.56
179	SWNEKLFNWGRQFQCA	11.89	3.36	GWYKMFNWGRQEQPA	8.10	5.20	CFSEKLFQWGMNDHD	5.57	4.84	KWKEKFFNWGMQNGHN	4.56
180	GWKEKLFNWGRQFQPA	11.47	3.24	CWWEKMFNWGMLNMHG	6.39	4.10	RWWEKLSNREGRQOQPA	5.36	4.66	TWYKLENFNFGSQNGHN	4.40
181	GWGEKLFNWGRQOQPA	10.86	3.07	GWWEVEFNWGMMLNMHG	6.32	4.05	DWWEKRFNWGRDNGMG	5.18	4.50	YWWEKLFNWGAQNCPP	4.32
182	SWWEKQFNWGRQOQPA	9.00	2.54	SWNEKLFNWVQOQPA	6.14	3.94	TWWEKFFNWGRQOQPA	4.90	4.26	KWWEKAFNDVMDQOQPK	4.21
183	GWEDYLFNWGALYVHQ	8.89	2.51	EWGEKLFNWGRQFQDA	5.89	3.78	CWWELEFNWGMMLNMPK	4.67	4.06	NWGMRLFNWGMNDMMG	4.08
184	GWWEKDFNWGRQNMHG	7.94	2.24	QWWEKLFNWVQOQPA	5.60	3.59	SWTEKLVNWGYQDQPK	4.53	3.93	SWWQKRFNWGMQOQPK	4.02
185	GWWEKDFNWMLNMHM	6.83	1.93	GWNEKLFNWGCSNQPK	4.87	3.12	DWWEKLNWNWRQOQDA	3.85	3.35	TWWEKLFNWGCQOQHM	3.25
186	GMWEKLFNWGRSNMHH	6.27	1.77	EWKEKLFNWGCVMNHA	4.66	2.99	GWWEKFFNWGCQNMTL	3.79	3.30	NWWDKLFNWGMEDQLK	3.03
187	CWWEKLCNKGQNGHG	5.77	1.63	CLWKEKRFNWGRQOQHA	4.26	2.73	TWWEKFFNWGRQOQDA	3.77	3.27	GWWEKFTNDGMMDSPPK	3.02
188	GWWEKMFNWVQOQPA	5.39	1.52	GWWEKLNNGGRQOQPA	4.11	2.63	KWNNKEEMWGMKMLV	2.82	2.45	CWDEKLFNWGLDQSK	2.62
189	CWNEKLFNWVQOQPA	5.00	1.41	TWWRKLFNWTCQVQPK	3.01	1.93	RWCVKTFSLGRQDQPT	2.48	2.15	SWWEKDFNWGMNDQPK	1.96
190	RGSCKLFNWGRGEGCG	3.17	0.89	EWNEKLFNWGRDNGMG	2.54	1.63	GWWEKTFNWGMMDQPK	2.32	2.01	SWWEKMFNWGMQNGHM	1.88
191	GWQFMFNWGMCMEM	2.17	0.61	GWQKLFNLGCVRMHA	2.48	1.59	GWWEKTFNDGRDNGMG	2.04	1.77	SWEKLFNWGMMDQPK	1.88
192	GWQEKRFNLGNLNQPA	2.12	0.60	GWDEKLFNWGMQNGLG	1.65	1.06	TKWEKRFCTCMMDRAK	1.95	1.69	TWWEKLNLFVGAQNCMA	1.49
193	GTCEKLLNVGLVYMG	1.86	0.53	MQWEKVFVKGVQNGCG	1.52	0.97	GYTEKLFNWGMMLNMG	1.78	1.55	KWEEQLFQWGYQDQPK	1.48
194	GWWEKLFNWGRSNMHH	1.64	0.46	TRWEKLFNWGMQNGHG	1.45	0.93	NKWEKLFNAGMEDQTL	1.21	1.05	GWWEKLNWGAQOQPK	1.42
195	GWNEKLFNWGRQOQPK	1.09	0.31	GWGEKLFNWGMQNGHG	1.06	0.68	VWDKSFNFQOQVQHM	1.11	0.96	GWWEKLFNWGMDSPPK	1.32
196	QWWEKAMSGRQDQST	0.67	0.19	GWWEKEFNWGMQNGHN	0.87	0.56	TRWEKANWGMMLNMPF	0.86	0.74	TDWEKLFNWGCQOQPK	1.20
197	QWNEKTFNWGRQTVED	0.50	0.14	SWWEKSCNWGRQOQEA	0.26	0.16	KQEFFLMRDSMLNMHG	0.39	0.34	TWWEKDTNWGCQNGHN	0.76
198	CYWEKLNLFGRMNGCN	0.45	0.13	EWDEKSFNWGRQOQPA	0.21	0.13	TWDETLFNSGRQDQPK	0.16	0.14	KWCEKLFNDGFLNCPA	0.55
199	GWWEKLFKACQAVQTC	0.26	0.07	CWWEKDFNWGMQNGHG	0.19	0.12	GWWDKSFNVCQOQMSM	0.14	0.12	NWWEKLFNWGMQOQPK	0.35
200	QGTTEKLSNMYRQOQPA	0.16	0.04	VECEKFEWTRQEQNA	0.07	0.04	SLCEKLFNLQGMNDTQ	0.03	0.03	QOTDRLQAWGMEQSTK	0.08
	Lead from Gen6	x	c	Lead from Gen7	x	c	Lead from Gen8	x	c	Lead from Gen9	x
	GWWEKLFNWGMLNMHG	120.47	34.03	TWWEKLFNWGRQEQPA	58.55	37.56	GWWDKLFNFGCQOQHM	52.83	45.93	SWWEKLNWFVQOQPA	73.57
	GWWEKLFNWGMLNMGG	108.32	30.60	GWWEKLFNFGCQOQHM	52.98	33.99	NWWEKLFNWGMEDQLK	50.60	43.99	SWWEKLFNWGMQOQPK	66.76
	GWWEKLFNWGMQNGHG	102.86	29.06	SWWEKLFNWGMLNMHG	51.34	32.93	TWWEKFFNWGMMDQPK	49.71	43.22	NWWEKLFNWGMNDQHM	66.27
	GWWEKLFNWGRSNMHH	102.72	29.02	GWWEKLFNWGMMLNMG	50.88	32.64	KWWEKLFNWGMLNMHG	48.42	42.10	SWWEKLFNWGMQOQPK	64.80
	QWWEKLFNWGRQOQPA	96.41	27.24	GWWEKLFNLGCOQOQPK	46.66	29.93	GWWEKLFNFGCQOQHM	47.31	41.13	KWWEKLFNDGFLNMG	62.89
	GWWEKLFNWGRDNGHG	93.71	26.47	QWWEKLFNWGRQOQPA	45.64	29.28	GWWEKLFNWGMQOQPK	47.23	41.06	GWWEKLFNWGMQOQPK	62.26
	GWWEKLFNWGRQOQPA	88.02	24.87	SWWEKLFNWGRQOQPA	45.57	29.23	GWWEKLFNWGMMLNMG	46.57	40.49	SWWEKLFNWGCQOQPK	59.69
	CWWEKLFNWGRQNGCG	86.07	24.32	SWWEKLFNWGRQDQPK	45.27	29.04	SWWEKLFNWGRQOQPK	42.75	37.17	GWWEKLFNWGMDSPPK	58.11
	GWWEKLFNWGRQOQPA	84.76	23.95	SWWEKLFNWVQOQPA	43.46	27.88	GWWEKLFNFGCQNMTL	42.59	37.03	GWWDKLFNFGCQOQHM	54.15
	GWWEKLFNWGRQFQPA	84.50	23.87	CWWEKLFNWGMQNGHG	42.82	27.47	SWWEKLFNFGMCOQNGHN	42.43	36.89	KWWEKLFNWGMMDQPK	52.79
	GWWEKLFNWGRSNMHH	77.39	21.86	GWWEKLFNWGRQOQPA	42.39	27.19	SWWEKLFNWGRDNGMG	42.03	36.54	TWWEKLFNWGMQOQPK	52.74
	GWWEKLFNLGCOQOQPK	69.17	19.54	GWWEKLFNWGMEDQPK	42.23	27.09	RWWEKLFNWGMQOQPK	41.84	36.38	GWWEKLFNWVMDQOQPK	47.55
	GWWEKLFNWGCNMHA	67.82	19.16	GWWEKLFNWGYQDQPK	41.43	26.58	CWWEKLFNWGMLNKH	41.34	35.94	TWWEKLFNWGMQOQPK	45.33
	GWWEKLFNWGRDQOQPK	63.63	17.98	GWWEKLFNWGRQFQDA	40.58	26.03	GWWEKFFNWGCQOQHM	38.66	33.61	GWWEKLFYVQOQNGG	44.99
	SWWEKLFNWVQOQPA	62.84	17.75	EWWEKLFNWGRDNGMG	40.21	25.79	DWWEKLFNWGRQDQPK	38.62	33.58	TWWEKLFNWGMQOQPK	44.96
	GWWEKLFNWGRQEQPA	62.81	17.74	GWWEKLFNWGRQNGCG	40.16	25.76	SWWEKLFNWGRQOQPA	38.36	33.35	SWWEKLFNWGMQOQHM	43.66
	GWWEKLFNWGRQDQPK	62.51	17.66	GWWEKLFNWGCSNQPK	39.82	25.54	TWWEKLFNWGRDNGMG	38.18	33.19	GWWDKLFNWGCQOQHM	40.74
	GWWEKLFNWGRQEQPA	61.69	17.43	EWWEKLFNWGMLNMHG	38.90	24.95	CWWEKLFNWGCSCQPK	36.50	31.73	CWWEKLFNWGLDQSK	39.11
	SWWEKLFNWGRQOQPA	53.62	15.15	GWWEKLFNWGRDNGHM	35.05	22.48	SWWEKLFNWGMMLNMPK	35.58	30.93	SWWEKLFNWGMQOQPK	38.71
	GWWEKLFNWGRQNGHG	53.19	15.03	GWWEKLFNWGCVMNHA	34.89	22.38	TWWEKLFNSGRQDQPK	34.42	29.92	GWWEKLFQWGMQOQPK	37.85
	GWWEKFFNWGMLNMHG	49.06	13.86	GWWEKLFNWGRQOQPA	33.88	21.73	GWWEKLNWNWRQOQPA	33.74	29.33	NWWEKLFNWGMENMNL	36.77
				GWWEKLFNWGMQNGHG	33.81	21.69	SWWEKLVNWGYQDQPK	30.04	26.12	GWWEKLFNWGMQNGHN	35.55
				CWWEKLFNWGRQOQPA	33.31	21.37	SWWEKLFNFGCQOQHM	29.14	25.33	GWWDKLFNWGMEDQLK	33.84

D-peptide sequences

	Generation 1	x	c	Generation 2	x	c	Generation 3	x	c	Generation 4	x	c
1	tnhylqwfagparhfd	83.25	0.60	tnhykwfwgqlerkd	205.07	1.25	tnhyllwfwagqlerkd	33.35	3.78	asqrlqwfagalrkl	23.48	5.00
2	epqrltwfwgqlerkd	69.63	0.50	apqrlqwfagalrrfd	196.67	1.20	tnqrlqwfagalrhyf	31.88	3.61	tnkewifagalrkyf	19.36	4.12
3	apqrlqwfagalcrwv	67.18	0.48	apqrlqwfagalrrfd	165.11	1.01	ecqrlqwfagalrhyf	29.77	3.37	tnkwnwfwagalrhyf	15.83	3.37
4	apqrlqwfalfdhna	65.51	0.47	epqrltwfwgqlrhd	157.06	0.96	asqrlqwfagalrhyf	28.45	3.22	tnqrlqwfagalrhyf	15.58	3.32
5	hkprlewfwagplrqfy	59.21	0.43	lgrlctcfwagqlerkd	133.46	0.81	vgqkwnfyfclcrwv	21.68	2.45	tnnrlqwfagalwhfh	15.49	3.30
6	ligtqlwfwagplrrfd	55.71	0.40	tnhyllwfwagparhfd	127.89	0.78	tnkknwfyfclcrwv	19.50	2.21	qnhylwfwagalrhd	15.36	3.27
7	drhrlqwfagplrrfd	48.88	0.35	tnhylqwfagparhfd	112.72	0.68	lnhyllwfwagparhfd	16.72	1.89	tnwylwfwagalrhyf	15.27	3.25
8	tnhyewfwagplrrfd	46.96	0.34	anhyllqwfagplrrfd	110.86	0.69	tnhyllwfwagparhfd	16.72	1.89	aqwllqwfagalrhyf	14.83	3.16
9	aplllqwfagplrrfd	46.47	0.33	tnhyllwfwagparhfd	109.05	0.67	telyewfwagplrrfd	15.94	1.80	vgskwnfwagalrhyf	14.71	3.13
10	apqrlqwfagplrrfd	46.20	0.33	elvrwswfwagplrrfd	108.87	0.66	tnkllwfwagplrrfd	15.68	1.77	tnhyllwfwagalrhyf	14.55	3.10
11	dhqrlqwfagplrrfd	45.91	0.33	epqrlqwfalftdnah	108.64	0.66	ppqrlqwfagalrhyf	15.28	1.73	tnkwnwfwagalrhyf	14.39	3.06
12	apqrlqwfagalrhd	45.72	0.33	tnhylqwfagparhfd	103.16	0.63	apqrlqwfagplrrfd	15.09	1.71	tnhyllwfwagalrhyf	14.20	3.02
13	lrglqwfagalrrfd	45.60	0.33	apqrlqwfagalcrwv	102.27	0.62	cthyllwfwagalrhd	14.54	1.65	tnhyllwfwagalrhyf	13.46	2.87
14	plfglqwfagplrrfd	44.15	0.32	ppqrlqwfagalrhyf	101.55	0.62	ltrlrtifagalcrwv	14.44	1.63	tnqrlqwfagalrhyf	13.25	2.82
15	frgisdifwagplrrfd	44.08	0.32	apqhnwlymalqlwfw	100.26	0.61	tnhrlqwfavfynah	13.92	1.58	lnhalwfwagalrhyf	13.18	2.81
16	apqrlqwfaytnslag	43.94	0.32	ftgisewfwagplrrfd	99.78	0.61	apqrlqwfagalrhyf	13.38	1.51	lnhyllwfwagalrhyf	12.97	2.76
17	tnhykwfwagplrrfd	40.14	0.29	cnhyllwfwagplrrfd	99.62	0.61	tnhyllwfwagparhfd	12.96	1.47	tnhrlwfwagalrhyf	12.91	2.75
18	apqrlqwfaytnslag	38.84	0.28	dhqrlqwfagplrrfd	99.59	0.61	qnhylwfwagalrhyf	12.73	1.44	tnkwnwfwagalrhyf	12.88	2.74
19	fkdwltwfwagplrrfd	37.96	0.27	wgkwnwfwagplrrfd	99.02	0.60	apqrlqwfagalrhyf	12.59	1.42	tnkewifagalrkyf	12.86	2.74
20	tnhykilshytlwfw	37.89	0.27	apqrlqwfagalrhyf	98.87	0.60	tnhrlwfwagalrhyf	11.95	1.35	tnyylwfwagalrhd	12.72	2.71
21	apqrlqwfagplrrfd	37.46	0.27	tlqyewfwagalcrwv	98.43	0.60	lthylqwfagparhfd	11.76	1.33	ecqrlqwfagalrkyf	12.43	2.65
22	apqrlqwfagplrrfd	36.83	0.27	ppqrlqwfagplrrfd	97.20	0.59	apqrlqwfagalrhyf	11.56	1.31	lnhyllwfwagalrhyf	12.43	2.65
23	apqrlqwfagplrrfd	33.87	0.24	apqrlqwfagalrhyf	96.56	0.59	apqrlqwfagalrhyf	11.33	1.28	lthylqwfagalrhyf	12.30	2.62
24	apqrlqwfagplrrfd	32.81	0.24	apmrlqwfagplrrfd	96.50	0.59	lthylqwfagplrrfd	10.89	1.23	vgqrlqwfagalrhyf	12.27	2.61
25	plfglqwfagplrrfd	31.62	0.23	tnqrltwfwgqlerkd	96.12	0.59	anhyllwfwagalrhd	10.67	1.21	tnhyllwfwagalrhyf	12.26	2.61
26	arhrlqwfagplrrfd	31.62	0.23	ligtqlwfwagplrrfd	94.79	0.58	tnhylqwfagalrhyf	10.51	1.19	tnhymwfwagalrhd	12.05	2.57
27	pgtercrplfevrwh	30.38	0.22	apqrlqwfagplrrfd	94.63	0.58	egkwnwfwagplrrfd	10.50	1.19	apqrlqwfagalrhyf	12.03	2.56
28	tnhykilshytlwfw	30.11	0.22	tnhylqwfagplrrfd	93.85	0.57	epqrlqwfagalrhyf	9.28	1.05	tnqrlqwfagalrhd	11.96	2.55
29	apqrlqwfagplrrfd	29.97	0.22	tlqrltwfwagplrrfd	92.62	0.56	tnhyllwfwagalrhyf	8.82	1.00	anqrlqwfagalrhyf	11.63	2.48
30	drhpnlfghrallwfw	29.30	0.21	tnhyllwfwagplrrfd	91.66	0.56	lgrlctcfwagqlerkd	8.28	0.94	tnhyllwfwagalrhd	11.60	2.47
31	qprlqwfagplrrfd	27.96	0.20	apqrlqwfagalcrwv	89.46	0.55	apqrltwfwagparhfd	7.99	0.90	lnqrlqwfagalrhyf	11.57	2.47
32	pefglewfwagplrrfd	27.80	0.20	apqrlqwfagalrhd	88.78	0.54	ppqrlqwfagalrhyf	7.96	0.90	knhtlqwfagalrhyf	11.56	2.46
33	apqrlqwfagplrrfd	26.89	0.19	apqrlqwfagalrhd	87.31	0.53	dlqrlqwfagalcrwv	7.45	0.84	lthylqwfagalrhyf	11.55	2.46
34	fkdnwfwagplrrfd	25.98	0.19	apqrlqwfagalrhd	85.70	0.52	anhyllwfwagplrrfd	7.42	0.84	tnqrlqwfagalrhyf	11.52	2.45
35	epqrlqwfagplrrfd	25.98	0.19	tnhylqwfagplrrfd	85.68	0.52	apqrlqwfagalrhyf	7.17	0.81	cthyllwfwagalrhd	11.46	2.44
36	apqrlqwfagplrrfd	25.72	0.19	tnhyewfwagplrrfd	84.87	0.52	tnhyllwfwagplrrfd	7.12	0.81	asqrlqwfagalrkyf	11.21	

37	awcptqwfagplrrfm	25.67	0.18	apqrlqwfagalrfgp	84.44	0.52	tnhryqwfagalcrvw	6.94	0.79	asqrlqwfagalrsfy	11.18	2.38
38	apqrlqwfagpsrral	25.67	0.18	lqrqlqwfafnlrrfl	84.11	0.51	fgglsvwfagplrrfd	6.85	0.77	ecqrlqwfagalrqqf	11.18	2.38
39	apqhlqwmaytmrfrk	25.45	0.18	apqrlqwfalwfmfdn	83.49	0.51	dhqrlqwfagvltrvw	6.81	0.77	evdqsqwfaealrmfy	11.17	2.38
40	lrqckkilsylesslag	25.22	0.18	apqrlqwfalwfmfdn	83.44	0.51	dhqrlqwfagvltrvw	6.69	0.76	pnqrlqwfagvlrthfy	11.11	2.37
41	drqrlqwfagplrrfd	25.17	0.18	aphylqwfagparhfd	82.83	0.51	tnhylvqwfaglacrkd	6.47	0.73	apqrlqwfagalrthfy	11.09	2.36
42	tnhyekwfagplrmxfd	25.09	0.18	ldlayikfygalrrfd	81.41	0.50	snhykwfagvltrvw	6.34	0.72	tnhyllwfagglrkd	10.88	2.32
43	eahrqvwfagplrrfd	25.06	0.18	apqrlqwfaytnswfy	81.29	0.50	anhylqcfagparhfd	6.24	0.71	tnqrlqwfagalrhty	10.75	2.29
44	gtdrhrwfwagplrrfd	24.83	0.18	slfgeqwfagalcrvw	78.26	0.48	tnhylvqwfaghltrvw	6.02	0.68	tnkkwnltfagalrthfy	10.67	2.27
45	fikdyplpfpallrzw	23.78	0.17	higvlqwfagplrrfd	78.04	0.48	tnhykwfagalrrfd	5.97	0.68	qsqrqefagalrthfy	10.62	2.26
46	apqyvkifsyteslvg	23.77	0.17	lqrhrqwfagalcrvw	77.21	0.47	apqrswwfagvlrthfd	5.96	0.67	asqrlqwfagalrthfy	10.59	2.25
47	apqrlqwfagprahdm	23.69	0.17	lpqrlqwfagalcdvw	76.79	0.47	apqrsqwfalalrkd	5.78	0.65	aserlwfagalcrvw	10.55	2.25
48	drhrplfrplfthrah	21.32	0.15	tnhylwifsytmakip	76.52	0.47	vtgikewfagplrqfy	5.60	0.63	telyhwwfagglrke	10.36	2.21
49	frgisdligtdrhrql	21.24	0.15	tnhywkifsmplrthfy	76.16	0.46	tnhywkifagprrfd	5.52	0.62	apqrnqwfalflcrwn	10.33	2.20
50	fiknntlthlfgghrah	21.20	0.15	epqrltwfwgqlrkd	75.98	0.46	apqllpwwfagparrrfl	5.37	0.61	tnhyslwfwagglrkyd	10.32	2.20
51	lrvcpqwfagplrrfd	20.44	0.15	apkrlltwfwgqlrkd	74.54	0.45	apqrlqwfagparhfn	5.14	0.58	tcqrlqwfagalrthfy	10.31	2.20
52	tpqrlqwcagpywyfe	20.35	0.15	qnhyldwfsylesslg	73.97	0.45	alvrswwfchlnrkt	5.13	0.58	tnhyllwfagglcrvw	10.29	2.19
53	kgtdrhrplfghral	20.01	0.14	apqrlqwfagaqrrld	73.81	0.45	tnvrswtfwcgyrkt	4.95	0.56	cthyllwfagalcrvw	10.28	2.19
54	apqyqlwfhadmtsat	19.34	0.14	hkprlewfwagplrqfw	73.77	0.45	ttgdsewflglrpfgy	4.94	0.56	tnhyllwfalpnrrfl	10.27	2.19
55	apqrlqrgyfmaiqp	19.16	0.14	wgkknwfyfcpcltds	73.72	0.45	apqglwfwaglrthfy	4.71	0.53	anhysqwfasalrthfy	10.23	2.18
56	aaqrlqwfghrahdm	18.95	0.14	ldkayikwagalcrvw	72.14	0.44	apqhqwlymalqlwfh	4.65	0.53	tnqrlqwfagalrhtf	10.21	2.17
57	tnhyekiffghrayda	18.69	0.13	tnhylvqwfapnlrrfl	71.79	0.44	tpqrlqmfalfpnhah	4.60	0.52	mmhklwfwagllrrfd	10.20	2.17
58	mhmklkifsyteslan	18.57	0.13	hkprlewfwalfdhnmh	71.44	0.44	epqrsqwfklalrkd	4.60	0.52	ecqrlqwfagalrthfy	10.17	2.17
59	apqrtqwfagprhpl	18.27	0.13	lvlylcwflwdlrrhd	69.77	0.43	dhqrlhwfwagalcrvw	4.59	0.52	esvrlqwfagalrthfy	10.05	2.14
60	lrglrfmaghkahdm	18.21	0.13	plfgltwfwagplrrld	68.32	0.42	lvvrswwfwcqlrkt	4.50	0.51	pprrlqwfagalrthd	10.01	2.13
61	drhrplffagplrrfd	17.56	0.13	aphylqwfagparhfd	67.92	0.41	lnhylltwfwgqlrkd	4.41	0.50	tnhyllwfagplrrfd	10.01	2.13
62	drhrplfghrplrrfd	17.23	0.12	hnhylvqwfagparhfd	67.80	0.41	tnhnlwlymalqlwfw	4.40	0.50	tlhyllwfagalrthfy	9.96	2.12
63	aprlqwfagmmtsat	16.83	0.12	apqllqwfagplrrfd	67.77	0.41	elvrwqfwagplrrfd	4.26	0.48	lnhyllwfagparhfd	9.92	2.11
64	frglseiliggplrrfd	16.48	0.12	lqrqlqwfagparhfd	67.07	0.41	tgpyltwfwgqmrhfk	4.19	0.47	ecqrlqwfagalrthfy	9.89	2.11
65	apqrlqwfagtsatal	16.37	0.12	lpqrnwlymalqlafg	64.78	0.40	apqrlqwfagalchfd	4.15	0.47	lnrclqwfagalrthfy	9.87	2.10
66	plqrlqwfagplrrfd	16.27	0.12	wgkknwfyfcpypda	64.56	0.39	tnqrlqwfagalrrfd	4.02	0.45	tnsrllwfagalrthfy	9.79	2.09
67	plfghrahdytllrrfd	16.17	0.12	lgrlqwfagaearkh	64.33	0.39	ltgrltwfasawrrqd	3.87	0.44	tnvylwfwagglpkfl	9.77	2.08
68	frglnlthimtyhyea	16.12	0.12	tnhyetwfwgqlrkd	64.29	0.39	epqrlqwfalfterkd	3.87	0.44	vthyllwfagplrrfl	9.62	2.05
69	lpqrlqeflglprvec	15.92	0.11	apqrlqwfvlfdhlah	64.22	0.39	dhqrlqwfagvlprwh	3.87	0.44	lttrltifagalrhtf	9.60	2.04
70	vkmmhmvfagdvrrfd	15.69	0.11	lgrlqwfagparhfd	63.71	0.39	apqrswwfwcqlrkt	3.86	0.44	eyqrlqwfagalrthfy	9.57	2.04
71	drhrpwwfagplrrfd	15.37	0.11	frglqwfagaealwdd	62.99	0.38	kytvlqwfagllrhpw	3.72	0.42	tnqreqfwagalrthfy	9.54	2.03
72	gtdrhrplfghrah	15.17	0.11	hkprlewfwagplkhd	62.92	0.38	tnhyslwfwagparhfd	3.64	0.41	kpqrlqwfalflchfy	9.48	2.02
73	gtdqhrptfghrrfd	14.73	0.11	apkhnlwlymalqlafg	62.79	0.38	tnhnlqwfagalcrvw	3.62	0.41	qnhyllwfagalrthd	9.40	2.00
74	gtdrhrplfghrah	14.73	0.11	apqrlswfaytnslag	62.62	0.38	tnhykwfwagqlrkd	3.60	0.41	tnhyllwfagglrkd	9.40	2.00
75	lpqrlqwfagplrrfd	14.31	0.10	lshknhwfwagplrrfd	61.96	0.38	apqwtltpfyypmlrmf	3.60	0.41	vcrlqwfagalrthfy	9.34	1.99
76	prhrplfghrahdm	14.21	0.10	tnqylqwfagparhfd	61.48	0.37	tnhyakwfwagplrrfd	3.53	0.40	tnhyslwfwagparhfd	9.29	1.98
77	drhrvllfwagahdm	14.19	0.10	wgcknfwfagplrrfd	61.43	0.37	plvrwswfwcqlrkt	3.50	0.40	hgywnwfyfqlcrvw	9.24	1.97
78	apqrlqghrplfhhrah	14.12	0.10	lnlayikkclwmmfrvw	60.69	0.37	tnhykwymalqlwfw	3.43	0.39	qghyllwfagglrkd	9.23	1.97
79	plfrplfghrahdm	13.99	0.10	wgqrlqwfalqdnah	60.67	0.37	elvrqwfagparhfd	3.43	0.39	tphyllwfagplrrfl	9.18	1.96
80	gtdrhrplfghryhdm	13.96	0.10	aplllqwfagdlcrvw	60.09	0.37	elvrswfwcqlrkd	3.32	0.38	tmhyllwfagglrkd	9.12	1.94
81	tigtdrhrplfghrah	13.92	0.10	apqrlqwfalqdnah	59.72	0.36	epqrltwfwgqlrkd	3.30	0.37	apqrsqwfalflcrvw	8.99	1.91
82	tnhyekifsyteslpl	13.83	0.10	epqrltwfwgqlrkd	58.28	0.36	apqrlwfwagplrrfd	3.30	0.37	atqrlqwfagalcrvw	8.96	1.91
83	apqrlqifsyteslal	13.67	0.10	dhqrnwlymalqlafg	58.07	0.35	epqrlwfwagplrrfd	3.29	0.37	ecqrlqwfagalrthfy	8.92	1.90
84	mhmnlrthimtyhyea	13.12	0.09	adlllqwfagahdtds	58.01	0.35	mpqrqwfagalrrfd	3.28	0.37	asqrlqwfagalrthfy	8.70	1.85
85	gtdrhrplfghrahdm	13.02	0.09	apkrllqwfagahdtds	57.41	0.35	ppqrlqwhagslrrfd	3.25	0.37	tnhyslwfwagparhfd	8.63	1.84
86	tnhyekifsyteslal	12.81	0.09	nnprlewfwagplrrfy	57.12	0.35	anhylqwfagplrrfd	3.19	0.36	tnhrlqwfagalrthd	8.54	1.82
87	hrplfdlgtdrhrpa	12.38	0.09	aplllqwfagplrrfd	56.37	0.34	anhylqwfagparhfd	3.19	0.36	tnqrlqwfavfyhnan	8.49	1.81
88	apllrnyfisyteslag	12.09	0.09	plfglqwyagparhfd	56.66	0.34	tnhylvqwfagparhfd	3.09	0.35	wgkknwfyfqlcrvw	8.49	1.81
89	apqrlqwfagtsatal	12.07	0.09	apqrlqwfaytnslag	54.86	0.33	ppqrlqwfagalrrfd	3.07	0.35	tnqrlwfwagplrrfd	8.48	1.81
90	arhrplfghrahdm	12.06	0.09	hkprlewfwagplrqah	54.59	0.33	tpqhnwlyealqlwfw	3.04	0.34	asqrlqwfagalrthd	8.45	1.80
91	lnhyeyefisyteslag	11.95	0.09	lpkrlqwfagahlrfd	54.55	0.33	apmrlqwfagplrrfd	3.00	0.34	qnhyllwfagagrsqfy	8.43	1.80
92	mhmnlrplfghrahdm	11.89	0.09	lgyllqwfagpdxct	53.56	0.33	ahqrltwfwgqlrkd	2.99	0.34	thhyllwfagglrkd	8.28	1.76
93	mwmnlrgcfmaimpem	11.69	0.08	apqrlqwfagplrrfd	52.55	0.32	apmrlqwfagalrrfd	2.94	0.33	tahyllwfagghcrvw	8.25	1.76
94	shmlnrgfwagplrrsd	10.34	0.07	lsprlqwfagplrrfy	52.50	0.32	apqrlqwfagparhfd	2.88	0.33	tnqrlqwfagvlrthd	8.21	1.75
95	nrhrplfghrahdm	10.05	0.07	tnhylvqwyapnlrrfl	52.24	0.32	epqrltwfwgqlrhd	2.85	0.32	sgkknwfyfqlrkd	8.16	1.74
96	apyrplfghrahdm	9.92	0.07	apqylqwfagplrrfd	52.11	0.32	apqrlqwfagplrrfd	2.81	0.32	tlhyllwfagglrkd	8.14	1.73
97	pgtdrhrplfghrah	9.68	0.07	trhrplqwfagplrrfd	52.00	0.32	apqrsqwfagalrrfd	2.79	0.32	mpqllqwfagvlcrwn	8.11	1.73
98	drhtplfisyteslag	9.64	0.07	apqrlqwfagplrrfk	51.16	0.31	tnhewkwfwgqlrpfy	2.56	0.29	tnqrlwfwagplrrfy	8.04	1.71
99	tnhrplfghrahdm	9.62	0.07	tnqywkifsytmakip	51.12	0.31	apqrlqwfagparhfd	2.53	0.29	telyewkylflcrvw	8.04	1.71
100	gtdrhrplfghrqp	9.56	0.07	apallqwfaytmhngp	51.11	0.31	apqrsqwfagalrrfd	2.52	0.29	lnhyllwfagkarkfy	8.04	1.71
101	tnhymnlrgcfmaiqp	9.53	0.07	drerlqwfalqdnah	50.97	0.31	ltgrltwfwagplrrfd	2.46	0.28	ecqylwfwagalrrfd	7.98	1.70
102	fikdnlycielnhng	9.37	0.07	tnhyllqwfagplrrfd	50.71	0.31	tnhylvqwfagalrrfd	2.45	0.28	tnhyllwfagglrkyd	7.81	1.66
103	tnhmeikfsgplrrfd	9.20	0.07	tnhylvqwfagpaslag	50.22	0.31	ppmrlqwfagplrrfd	2.38	0.27	csnyllwfagparhfd	7.79	1.66
104	tnhyelfnhrahdm	9.15	0.07	dkprlewfwagplrrfy	48.83	0.30	ftgisewfwagplrrvw	2.33	0.26	ecqrlqwfagalrvfy	7.74	1.65
105	drqtdrhrplfghrah	9.05	0.07	apqrlqwfagalcrvw	48.48	0.30	ftgislwfwagpaeahfd	2.32	0.26	wgkknwfyfagllrrfd	7.73	1.65
106	mpvtlqnfkaplrrfd	8.96	0.06	wgkknwfyfcpclfyq	48.21	0.29	apqrlqwfagglrkd	2.29	0.26	tnqrlqwfagalrthd	7.66	1.63
107	drhrplfghrahdm	8.64	0.06	tnqrlqwfagalcrvw	48.15	0.29	lpqrsqwfagplrrfd	2.27	0.26	asqrsnfyfqlcrvw	7.60	1.62
108	drhrplfghrahdm	8.56	0.06	hpqrlqwfagplrrfd	48.14	0.29	apmrlqwfagplrrfd	2.15	0.24	asqrlwfwagglrkd	7.58	1.61
109	fikdlqwmagpnyhfd	8.46	0.06	frgisdlfisyteslag	48.00	0.29	apqrsqwfagalrrfd	2.13	0.24	thhyaswfwagparrrfl	7.56	1.61
110	tnhyekifisyteslap	8.33	0.06	liqrlqwfalqdnah	45.77	0.28	apqrsqwfagplrrfd	2.07	0.23	lttrllqwfagalrthd	7.46	1.59
111	apdrhrplfghrahdm	8.24	0.06	frllsqwfagplrrfd	45.76	0.28	ftgisewfwagplrrfd	2.06	0.23	apqrtqwfagalrthfy	7.37	1.57
112	apqrlqwfagplrrag	8.20	0.06	tnhyewifsytmakip	45.39	0.28	cnhylltwfwgqlrkd	1.97	0.22	ncqrlqwfagalrthfy	7.35	1.57
113	hrplfghrahdmtrfc	8.03	0.06	apqrlqwfagplrrfy	45.20	0.28	dhtylqwfagparhfd	1.91	0.22	snkknwfyfqlrthfy	7.33	1.56
114	tkhyekifisyteqpea	7.95	0.06	vskknfwfagplrrfd	45.03	0.27	cnhylltwfwgqlrkd	1.91	0.22	tpkknwfyfagplrrfy	7.33	1.56
115	apqrlqwfagtsatal	7.40	0.05	apcrllqwfagalrrfd	44.02	0.27	tnhylvqwfagancrvd	1.83	0.21	tnhycewfwalnrkt	7.25	1.54
116	plfghrahdmtrrrfd	7.15	0.05	ephylqwfagparhfd	43.24	0.26	wgkknwfyfagplrrfd	1.81	0.20	wgkknwfyfqlnrkt	7.24	1.54
117	tnhyekifisyteslag	7.06	0.05	tnhywicsylesslg	43.13	0.26	tqlyewfwagpwtkhd	1.77	0.20	tmhkyfwagllrrvw	7.16	1.52
118	tnhhealfsyterpfd	7.02	0.05	apqhnwlymalqlafg	41.85	0.26	anhylqwfagpwtkhd	1.61	0.18	tlhyllqwfagglrkd	7.13	1.52
119	gtdrhrplfghhvm	6.93	0.05	dhllrnsfcpallrzw	41.84	0.26	apqhnwlyagparhfd	1.55	0.18	ekqrlqwfagalrrfd	7.09	1.51
120	apqlfmaigleallga	6.77	0.05	liqrlqwfagpccldm	41.16	0.25	ppqrlqwfagglrkd	1.46	0.17	asqrlqwfagalrthfy	7.03	1.50
121	drhrplfghrahdm	6.70	0.05	drhrnqwfagahvlt	41.04	0.25	tnkywfwfwgqlrkd	1.44	0.16	anhrlqwfagplrrfy	6.98	1.49
122	hrplsdlltdrhrpl	6.69	0.05	apqrlqwfaytnslad	41.03	0.25	apqrsqwfagplrrfd	1.43	0.16	lterltifagalcrvw	6.98	1.49
123	apdrhrplfghrahdm	6.49	0.05	lnsyewifsytmakip	40.87	0.25	ppqrlqwfagplrrfd	1.41	0.16	lttrlltwfwagplrrfd	6.94	1.48
124	drhrplfghrahdm	6.47	0.05	apqrlqwfaytnslal	40.82	0.25	apqrlqwfagplrrfd	1.37	0.15	tsqrcewfwagalrvfy	6	

133	fikdnlthiadhrpl	5,96	0,04	apqrlqwfqgalrrfd	36,52	0,22	cnhylvqwcwmmfwdn	1,06	0,12	ecqrlnwfkplcrwv	6,45	1,37
134	vnmhmlrgrcfmst	5,90	0,04	aplplnsfapallrsv	36,44	0,22	apqrlqwfqgalrrfd	1,02	0,12	pnhykswfagparckfl	6,44	1,37
135	hrplfghrahdmtyea	5,82	0,04	tnhylvqwcwmmfwdn	35,51	0,22	apqrlqwfqgalrrfd	0,98	0,11	ahqkqwfiycplrqfy	6,34	1,35
136	apqrlqwfqgalrrfd	5,75	0,04	ldlayiweagalrrfd	35,39	0,22	ppqrlqwcwmmfwdn	0,96	0,11	tgqkvnfiylflcrwv	6,25	1,33
137	apqrvpwhrahdmtyea	5,75	0,04	epqrlqwfqgalrrfd	35,34	0,22	apqrlqwfqgalrrfd	0,96	0,11	tnhrlqwfqgalrrfd	6,19	1,32
138	apnrlqwhahpdrvmq	5,48	0,04	tnhyqwfagparhfd	33,95	0,21	avqrlqnlhdplrrfd	0,94	0,11	tnqrlqwfagalerkd	6,16	1,31
139	plfghrahagplrrfd	5,42	0,04	lintlqwfagparhfd	33,80	0,21	tnhykwewlftnha	0,93	0,10	ltrlplfifagalrrfd	6,14	1,31
140	gtdrhrplqghrahfd	5,26	0,04	plfgnlfiycpwwlls	33,72	0,21	apqrlqwfqgalrrfd	0,93	0,10	tnayllwfagglenah	6,04	1,29
141	fikdplfghrahdmtyea	5,16	0,04	epqrlqwfqgalrrfd	32,84	0,20	epqrlqwfqgalrrfd	0,90	0,10	epqrlqwfagparrrfl	6,02	1,28
142	fikdnlthiqtmrrfd	5,10	0,04	apqrlqwfagleslag	31,98	0,20	apqrlqwfagparhfd	0,88	0,10	ecqrlqwfagglrqfy	6,01	1,28
143	ligntdrhrplflpafd	5,06	0,04	wgkklqwfagparhfd	31,96	0,19	epqrlqwfagparhfd	0,88	0,10	vgnkwnffagparrrfl	5,91	1,26
144	apqrlqwfagparhfd	5,00	0,04	aplrlnsfppallrsv	31,92	0,19	ppqrlqwcwmmfwdn	0,88	0,10	asqrlqwfagglcrwv	5,87	1,25
145	gtdyefkifsyteslag	4,94	0,04	tnhyldwfdgplrrfd	31,84	0,19	apqrlqwfagparhfd	0,88	0,10	tvhyllwfavglcrkd	5,82	1,24
146	tnhtdrhrpfcghrah	4,77	0,03	tnhyldwfdgplrrfd	31,44	0,19	ltgclpcfwgqlcrkd	0,84	0,10	alhyqwfsvpardnm	5,78	1,23
147	tnhyekifsydeslag	4,77	0,03	apqrlqwfagglcrwv	31,04	0,19	apqrlqwfagglcrwv	0,82	0,09	asqrlqniylflcrwv	5,78	1,23
148	ppkempwyagpyraf	4,76	0,03	frgyewdfsytaiqp	30,55	0,19	tnhyqwfagparhfd	0,81	0,09	ecqrlqwfagglcrwv	5,76	1,23
149	qlfghrahdmtyea	4,40	0,03	tkprlewfatplrqm	30,23	0,18	elvrswfwmmqlcrwv	0,80	0,09	apqrlqwfagglcrwv	5,73	1,22
150	plfgtrahdmtyea	4,28	0,03	epqrlqwfagglcrwv	29,95	0,18	apqrlqwfagglcrwv	0,79	0,09	ecqrlqwfagglcrwv	5,61	1,19
151	ligntdrhrpplrrfd	4,19	0,03	apaisdfisyteslag	29,03	0,18	anhykwfwgqlcrkd	0,77	0,09	aaqrlqwfagglcrwv	5,58	1,19
152	hrnkghlpphdmtgat	4,17	0,03	apqrcqwfagparhfd	28,75	0,18	tnhykwfwgqlcrkd	0,76	0,09	aelyewifagalcrqfy	5,50	1,17
153	plfdnlthiqtnhyea	4,07	0,03	hkprlwfsvqmaiqp	28,75	0,18	anpqlqwfagglcrwv	0,75	0,08	elqrlqwfagglcrkd	5,44	1,16
154	fikdnlthiqtnhyea	4,06	0,03	hkmlrlewfdgplrrfd	28,57	0,17	tnhykwfwgqlcrkd	0,74	0,08	vnhllwfagglcrwd	5,41	1,15
155	mpqrtwasmampytrfd	4,06	0,03	apqrlqwfagglcrwv	27,42	0,17	epqrlqwfagglcrwv	0,71	0,08	tehyllwfagglcrkd	5,28	1,12
156	apqrlqwfagglcrwv	4,06	0,03	lllglqwfagglcrwv	27,27	0,17	apqrlqwfagglcrwv	0,68	0,08	asqrlqwfagglcrwv	5,26	1,12
157	ayprlqwfagglcrwv	4,04	0,03	hkpslqwfagglcrwv	27,21	0,17	tnhyllwfwgqlcrkd	0,67	0,08	tnkkwnfiycplrqfy	5,11	1,09
158	apycdqafwgplrrfd	4,02	0,03	apqrlqwfagglcrwv	27,04	0,16	lthywmmfwgqlcrkd	0,66	0,07	apqrlqwfagglcrwv	5,08	1,08
159	erkyfhtalqmdsata	3,80	0,03	drhrlqwfagglcrwv	26,95	0,16	tnhykwfwgqlcrkd	0,64	0,07	apqrlqwfagglcrwv	4,98	1,06
160	aplrlnsfppalldm	3,69	0,03	aplrlnsfwwgqlcrkd	26,58	0,16	nqhykwfwgqlcrkd	0,64	0,07	vvgewfnlfnrrql	4,97	1,06
161	gtechvplfqrhthpm	3,57	0,03	apqrlqwfagglcrwv	26,56	0,16	tnhykwfwgqlcrkd	0,64	0,07	tnqrlqwfavdyhna	4,91	1,04
162	plfghrahdmtyea	3,53	0,03	ligntdrhrpplrrfd	26,04	0,16	epqrlqwfagglcrwv	0,59	0,07	anqrlqwfagglcrwv	4,83	1,03
163	frgisdielteslag	3,52	0,03	lshkewliycpymf	25,79	0,16	apqrlqwfagglcrwv	0,58	0,07	ecqrlqwfagglcrwv	4,76	1,01
164	ligntdrhrpplrrfd	3,43	0,02	hkprsewfagparhfd	25,57	0,16	adhwykwfwgqlcrkd	0,57	0,06	ecqsnlwfagalrrfd	4,71	1,00
165	drhrplfghvahdmea	3,37	0,02	apnrvqwfagparhfd	24,24	0,15	epqrlqwfagglcrwv	0,53	0,06	tthrlqwfagglcrwv	4,67	0,99
166	plfghrahdmtyea	3,23	0,02	epqrlqwfagglcrwv	23,89	0,15	apqrlqwfagglcrwv	0,51	0,06	apqrlqwfagglcrwv	4,63	0,99
167	plfghrahdmtyea	3,10	0,02	drhrlqwfagglcrwv	23,25	0,14	ppqrlqwcwmmfwdn	0,51	0,06	apqrlqwfagglcrwv	4,62	0,98
168	gtdlhrplfgeallga	3,06	0,02	epqrlqwfagglcrwv	23,20	0,14	tnhyllwfwgqlcrkd	0,47	0,05	ecqrlqwfagglcrwv	4,55	0,97
169	dyhrplfghdmtyea	2,97	0,02	qanrltafagparhfd	22,75	0,14	tnhykwfwgqlcrkd	0,46	0,05	tnqrlqwfagglcrwv	4,54	0,97
170	plfghrahdmtyea	2,85	0,02	cpqamtkfahalrrwd	22,09	0,13	ppqrlqwcwmmfwdn	0,45	0,05	ppqrlqwfagglcrwv	4,53	0,96
171	fhgisghrahdmtyea	2,81	0,02	hskhnwlysaplrrfd	21,67	0,13	tnqyatwfwgqlcrkd	0,44	0,05	tnqrlqwfagglcrwv	4,52	0,96
172	tagtnlqrpfcavah	2,75	0,02	ppqrlqwfagglcrwv	21,51	0,13	apqrlqwfagglcrwv	0,44	0,05	apqrlqwfagglcrwv	4,52	0,96
173	vnmhmnrgpplrrfd	2,67	0,02	epqrlqwfagglcrwv	21,22	0,13	epqrlqwfagglcrwv	0,42	0,05	alqyillwfadglcrkd	4,50	0,96
174	hrplfghrahdmtyea	2,60	0,02	frprlewmagplrrfd	19,97	0,12	tnhykwfwgqlcrkd	0,42	0,05	tnqrlqwfagglcrwv	4,42	0,94
175	plfghrahdmtyea	2,52	0,02	drhrylkwfwgqlcrwv	19,94	0,12	apqrlqwfagglcrwv	0,40	0,04	tmhklwfagglcrwv	4,37	0,93
176	prgysldigtqsrsh	2,51	0,02	drhrlqwfagglcrwv	19,82	0,12	tnhykwfwgqlcrkd	0,39	0,04	tnhyllwfwgqlcrkd	4,33	0,92
177	fikdnlthiqtnhyea	2,49	0,02	epqrlqwfagglcrwv	19,06	0,12	epqrlqwfagglcrwv	0,39	0,04	apqrlqwfagglcrwv	4,23	0,90
178	pafghhahrahdmtyea	2,40	0,02	apqrlqwfagglcrwv	18,65	0,11	atqplqwfagparhfd	0,36	0,04	tnqrlqwfagglcrwv	4,13	0,88
179	klfehrahdmtyea	2,32	0,02	tnhyllwfwgqlcrkd	18,26	0,11	apqrlqwfagglcrwv	0,36	0,04	tnqrlqwfagglcrwv	4,12	0,88
180	gtdrhrpplrrfd	2,24	0,02	apqrlqwfagglcrwv	17,78	0,11	tnqrlqwfagglcrwv	0,36	0,04	lqrlqwfagglcrwv	3,99	0,85
181	ligntdrhrpplrrfd	2,20	0,02	epqrlqwfagglcrwv	16,37	0,10	tmgrltwfwgqlcrkd	0,36	0,04	tnhrlqwfagglcrwv	3,96	0,84
182	gtdclrgcfmaiqpea	2,16	0,02	aellrnsfapalrrfd	16,31	0,10	tnhyllwfwgqlcrkd	0,35	0,04	ecqrlqwfagglcrwv	3,87	0,82
183	qimdnltisiktthyma	2,08	0,01	apqrlqwfagglcrwv	14,65	0,09	elvrswfwmmqlcrwv	0,34	0,04	tqrlqwfagglcrwv	3,76	0,80
184	lpgtdrhrpplrrfd	2,04	0,01	hkpelewfdgplrrfd	14,28	0,09	wgkklqwfagglcrwv	0,31	0,04	apqrlqwfagglcrwv	3,75	0,80
185	vnmhmlrgrcfmst	1,82	0,01	lpgtlqgflnprrrfd	14,18	0,09	tnqrlqwfagglcrwv	0,31	0,03	asqrlqwfagglcrwv	3,61	0,77
186	frgisdielteslag	1,75	0,01	lrgrlqwfagglcrwv	14,15	0,09	apeyqwfagglcrwv	0,30	0,03	asqrlqwfagglcrwv	3,53	0,75
187	fikdnlthiqtnhyea	1,66	0,01	arhrlqwfagglcrwv	13,35	0,08	apqrlqwfagglcrwv	0,30	0,03	tyqrlqwfagglcrwv	3,34	0,71
188	vnmhmlrgrcfmst	1,47	0,01	epqrlqwfagglcrwv	12,23	0,07	tqrlqwfagglcrwv	0,29	0,03	apqrlqwfagglcrwv	3,29	0,70
189	plfghrahdmtyea	1,40	0,01	aplrlnsfppalrrfd	12,07	0,07	apqrlqwfagglcrwv	0,28	0,03	apqrlqwfagglcrwv	3,06	0,65
190	apqrlqwfagglcrwv	1,39	0,01	apqrlqwfagglcrwv	11,38	0,07	apqrlqwfagglcrwv	0,26	0,03	qnllwfwagglcrwv	2,82	0,60
191	lhgtdrhrpplrrfd	1,33	0,01	nkllknpfapalrrfd	11,34	0,07	tnhykwfwgqlcrkd	0,25	0,03	tnhsvlwfagglcrwv	2,76	0,59
192	arqcfmaiqpea	1,32	0,01	agkknwlyscpymf	10,38	0,06	ppqrlqwcwmmfwdn	0,25	0,03	ewqrlqwfagglcrwv	2,55	0,54
193	apqrlqwfagglcrwv	1,30	0,01	apqrlqwfagglcrwv	7,71	0,05	lpgwqwfagglcrwv	0,25	0,03	teqrlqwfagglcrwv	2,49	0,53
194	aplrlnsfppalrrfd	1,28	0,01	apqrlqwfagglcrwv	5,69	0,03	epqrlqwfagglcrwv	0,22	0,02	pphyllwfwagglcrwv	2,46	0,52
195	gigtldrhrpplrrfd	1,24	0,01	adsrlqwfagglcrwv	5,41	0,03	wdrvrtwfwgqlcrkd	0,18	0,02	tmhklwfagglcrwv	0,94	0,20
196	fikdnlthiqtnhyea	1,08	0,01	apqrlqwfagglcrwv	4,24	0,03	apeewmfagglcrwv	0,17	0,02	tnhyllwfwagglcrwv	0,74	0,16
197	plfghrahdmtyea	0,98	0,01	dhqrlqwfagglcrwv	3,50	0,02	lvtktwfwgglcrwv	0,14	0,02	tnhyllwfwagglcrwv	0,46	0,10
198	gldrhrpplrrfd	0,95	0,01	tnhyllwfwagglcrwv	2,78	0,02	ppqrlqwcwmmfwdn	0,13	0,01	snrdevfagglcrwv	0,45	0,10
199	ligntdrhrpplrrfd	0,74	0,01	apqrlqwfagglcrwv	1,51	0,01	tnqrlqwfagglcrwv	0,12	0,01	tnqrlqwfagglcrwv	0,36	0,08
200	apqrlqwfagglcrwv	0,62	0,00	drhrlqwfagglcrwv	-0,17	0,00	ftgidewfagglcrwv	0,10	0,01	teyefifagglcrwv	0,33	0,07
	Lead Pehdides	x	c	Lead from Gen1	x	c	Lead from Gen2	x	c	Lead from Gen3	x	c
	apqrlqwfagglrrfd	26,89	0,19				tnhykwfwgqlcrkd	0,73	0,08	tnhyllwfwagglcrwv	11,00	2,34
	tnhyekifsyteslag	7,06	0,05				apqrlqwfagglrrfd	2,81	0,32	tnqrlqwfagglrrfd	9,72	2,07
	drhrplfghrahdmtyea	8,56	0,06				apqrlqwfagglrrfd	1,07	0,12	ecqrlqwfagglrrfd	9,22	1,96
	plfghrahdmtyea	2,85	0,02				epqrlqwfagglrrfd	4,08	0,46	asqrlqwfagglrrfd	10,45	2,23
	mhmlrgrcfmaiqpea	4,37	0,03				ltgrltwfwgqlcrkd	3,33	0,38	vgkknwfiylflcrwv	10,15	2,16
	vnmhmlrgrcfmaiqp	6,22	0,04	tnhyllwfwagglrrfd	107,48	0,66	tnhyllwfwagglrrfd	13,49	1,53	tnkkwnfiycplrqfy	7,08	1,51
	aplrlnsfppallrsv	27,09	0,20	epqrlqwfagglrrfd	78,41	0,48	tnhyllwfwagglrrfd	3,27	0,37	lnhyllwfwagglrrfd	13,33	2,84
	hrplfghrahdmtyea	6,29	0,05	apqrlqwfagglrrfd	113,79	0,69	anhyllwfwagglrrfd	1,92	0,22	tnhyllwfwagglrrfd	10,78	2,30
	gtdrhrplfghrahdm	9,14	0,07	apqrlqwfagglrrfd	72,93	0,44	tnhyllwfwagglrrfd	10,19	1,15	teyefifagglrrfd	8,89	1,89
	ligntdrhrplfghrah	14,97	0,11	hkprlewfdgplrrfd	68,31	0,42	elvrswfwmmqlcrwv	2,86	0,32	tmhklwfagglrrfd	9,61	2,05
	frgisdieltdrhrpl	12,83	0,09	ligntdrhrplrrfd	79,12	0,48	epqrlqwfagglrrfd	7,12	0,81	ppqrlqwfagglrrfd	8,97	1,91
	fikdnlthiqtnhyea	4,06	0,03	drhrlqwfagglrrfd	56,34	0,34	tnhyllwfwagglrrfd	5,67	0,64	apqrlqwfagglrrfd	6,88	1,47
				tnhyewifsytaiqp	51,16	0,31	apqrlqwfagglrrfd	6,63	0,75	cthyllwfwagglrrfd	11,36	2,42
				aplrlqwfagglrrfd	54,72	0,33	ppqrlqwfagglrrfd	25,18	2,85	ltrlqwfagglrrfd	6,60	1,41
				apqrlqwfagglrrfd	46,35	0,28	apqrlqwfagglrrfd	3,44	0,39	tnhrlqwfagglrrfd	8,08	1,72
				dhqrlqwfagglrrfd	43,40	0,26	ftgisewfagglrrfd	5,57	0,63	apqrlqwfagglrrfd	7,48	1,59
				apqrlqwfagglrrfd	43,52	0,27	cnhyllwfwagglrrfd	0,95	0,11	tnhyllwfwagglrrfd	8,11	1,73
				lrgqlqwfagglrrfd	57,64	0,35	dhqrlqwfagglrrfd	6,55	0,74	qnhyllwfwagglrrfd	13,34	2,84
				plfghrahdmtyea	52,76	0,32	wgkknwfiycplrqfy	16,86	1,91	apqrlqwfagglrrfd	6,82	1,45
				frgisdielteslag	38,49	0,23	apqrlqwfagglrrfd	12,26	1,39	tnhrlwfwagglrrfd	8,33	1,77
				apqrlqwfagglrrfd	48,87	0,30	tqlyewifagglrrfd	10,11				

	Generation 5	x	c	Generation 6	x	c	Generation 7	x	c	Generation 8	x	c
1	tnkewnwafagalrhyf	35,06	6,03	pnkevhwvdgalrmwl	65,96	9,05	nwkwnnwagalrmfl	128,99	15,05	nwknewwagalrmwl	73,49	20,01
2	vaskwqwwagalrkfl	33,28	5,72	tsqevqswagalrmwl	55,24	7,58	tnkdwnnwagalrkfl	99,14	11,57	nwkwnnwagaalrqfl	67,37	18,34
3	tnkkewifygalrqfs	31,54	5,42	tnkewnwfgalrmfl	53,52	7,34	tgkewqswagalrmwl	90,20	10,53	nwkwnnwagaalkkfl	64,93	17,68
4	vgskewifygtrlrgfy	29,21	5,02	tnkelnwagalrkfl	52,40	7,19	qnkevhwvdgalrmwl	76,97	8,98	dwnkwnwaaalrmfn	64,06	17,44
5	wqwwltwafagalrhy	29,07	5,00	wkwmltwafagalrkfh	47,00	6,45	ymkwqwwagalrmfl	69,13	8,07	nwkwnnwvagalrhl	55,08	15,00
6	ttqwdwafagalrhl	28,87	4,96	ttqwdwaaagalrhw	43,61	5,98	pnkevhwvdgalrmwl	68,58	8,00	nwkwnnwagalrmfl	51,97	14,15
7	mqwwhwifagalrhd	27,34	4,70	asqqlqwagalrqfy	43,32	5,94	wqwwlnwfgalrmfl	68,23	7,96	nwkwnnwvdgalrmwl	50,03	13,62
8	tnkwnnwagalrcfy	27,08	4,66	vakkwqwwagallshfy	43,10	5,91	tnqrlqwvgyllrqfl	66,86	7,80	nwknlwvagalrsktl	48,08	13,09
9	tnnrlqwwagalrkfl	26,71	4,59	vmskwqwwagalrkfl	42,86	5,88	vaskwnwagqlrkwl	66,80	7,79	nwknywwaagalrmfl	47,99	13,07
10	tnkkewifygalrqfy	26,38	4,54	takvwnnwagalrkfl	42,32	5,81	tgkewnwfgalrhw	66,09	7,71	wkktwwwllalrhl	47,72	12,99
11	lsqrlqwagalrkfl	25,62	4,41	wqwwlmwafagalrhd	42,29	5,80	wkwllhwfdgalrkfl	64,29	7,50	wsswnnwagqlrkwl	46,08	12,55
12	asmevqwwagalrmwl	25,43	4,37	wqwwlwwfagalrkml	41,99	5,76	pnkevhwvdgalrmwl	63,77	7,44	tnkdwnwagaalrkfl	44,32	12,07
13	asqdlqwagalrhyf	24,67	4,24	thpevqwwagalrmwl	40,54	5,56	tsqevqswagalrmwl	62,93	7,34	qykwqwwagallhfl	41,90	11,41
14	tnhyllwafagalrkfl	24,41	4,20	vaskwqwwagalrkfl	39,61	5,43	qakkwqwwagllshfl	62,39	7,28	nwkwnwvgyllrqfy	41,37	11,27
15	tnknwnwagalrhyf	24,28	4,18	nwkwnnwvagalakfc	39,16	5,37	pnkkwqwwagwllshwy	61,00	7,12	pnkhwqwwagwllrwm	41,25	11,23
16	tsqrlqwagalrkfl	23,31	4,01	tnkewnwafagalrhyf	38,94	5,34	tnqetqswagalrmwl	60,36	7,04	tmsnwnwakaalrmfl	41,09	11,19
17	asprlqwafagalrhyf	23,10	3,97	tnkkewifygalrqfs	38,70	5,31	takvwnnwafagalrhl	59,66	6,96	wqwwlnwagaalrmf	40,58	11,05
18	tnnrlqwwagalrkfl	23,08	3,97	tnwnlwafagalrhyf	36,44	5,00	nwkwnnwvdtalrkwl	58,29	6,80	dwnwnnwagalrml	38,87	10,58
19	tnwylwvafagalrkfl	22,98	3,95	asmevqwwagalrmfl	35,75	4,90	tnkagwqwwagalrhl	57,02	6,65	tnkdwnwvgyllshfy	38,69	10,54
20	tnyknwafagalrhyf	22,95	3,95	tnqrlqwvgyllrqfl	35,51	4,87	wqwwlmwafagalrhl	55,63	6,49	pwknwnwagalamsl	38,47	10,48
21	tnnalswafagalrhyf	22,95	3,95	vgskewifygtrlrgfy	35,04	4,81	wqwwlwwfvgayrkmd	55,57	6,49	tvqkqwwagllssfl	38,44	10,47
22	wnkqpnwafagalwhfh	22,90	3,94	wqywtwafagalrhl	34,75	4,77	vmskwqwwagalrmfl	55,11	6,43	qakkmwvagalrshwl	37,49	10,21
23	tnhyslwfagalrhm	22,89	3,94	tnkkewifygalrqms	34,65	4,75	hgywqtwafadalrqfy	53,68	6,26	wqwwlnwfgalrhmfl	37,37	10,17
24	tnkkewifygalrkss	22,64	3,89	nsnrlqwwagalwhfh	34,60	4,75	tnkewnwafagalrhmfl	53,57	6,25	nwenwnwvqalrhl	36,58	9,96
25	tnhyllwafagalrhyf	22,39	3,85	wnkewifygalrqfs	34,41	4,72	wqwwlhwaaalrmwl	53,28	6,22	wqwwlwwfvalrkphl	36,27	9,87
26	tnkqwnwafagalrhyf	22,01	3,79	agskewifygalwhfh	34,37	4,71	wqwwlwwfvaalrkfh	52,29	6,10	wkwdhwfagwllshwy	36,12	9,83
27	lthalswafagalrhyf	21,83	3,75	tnkewnwafagalrhyf	34,34	4,71	wkwlltwfasalrshfl	51,42	6,00	tnkdwnwagaalrhm	35,85	9,76
28	tnknwifagalrqfy	21,81	3,75	tskkewifygalrqfs	34,04	4,67	akwlltwfagalrmwl	51,34	5,99	tnhawqwwagaldhfl	35,42	9,64
29	tnhyllwafagqlrhyf	20,93	3,60	lsmkwwvagalrkfl	33,24	4,56	wqwwlwfagalrkfs	50,83	5,93	nwnwnwvagalrhmfl	35,37	9,63
30	tnhyllwifagalrhhf	20,92	3,60	tnktewwaaagalrkfl	33,09	4,54	wqewlhwfdgalrhl	50,66	5,91	wqwwlmwafagalrhd	34,82	9,48
31	lnkkewifygalrqfy	20,69	3,56	wnkqenwfahwlrhyf	32,69	4,48	wqwwlqwwagalrqsy	50,59	5,90	nkwkwnwagalrhmfl	34,37	9,36
32	tnhyllwafagalrhyf	20,62	3,55	tnkewnwafagalrhy	32,65	4,48	vashwqwwagalrmwl	50,23	5,86	wqwwlhwfagalrhmfl	34,01	9,26
33	vgskwvayagalrhyf	20,20	3,47	vgsvwnwvagalrcfy	32,62	4,48	wqkvwmmwagawrkfv	49,55	5,78	tgswqwwagalaml	33,50	9,12
34	tgswnwifagalrhyf	20,15	3,47	tnsrpwwagalrkfl	32,17	4,41	lhpevqwwagalrmwl	49,23	5,74	tnkdwdwagalrwl	33,40	9,09
35	tnqylpafagalrkfl	20,12	3,46	tnkkewifygalrqfy	31,87	4,37	pkwlltwfagalrmwl	48,64	5,68	tgkewwvagalrhmfl	33,26	9,06
36	tnkylwvafagalrhhf	19,98	3,44	wqgkewifygtrlrgfy	31,62	4,34	wqwwldwagalrkfl	48,38	5,65	tnwllhwkealrmwl	33,06	9,00
37	qnhyllwafagalrhyf	19,93	3,43	tnpkwwvafagalrhyf	31,62	4,34	tgkwvqswagalrmwl	47,60	5,55	tnwllwvagaalrkfl	32,91	8,96
38	asqrlqwagalwhfh	19,81	3,41	mqghwifagalrhyf	31,51	4,32	qkqelnwagaalrkfl	46,69	5,45	nwenwqywwagalaml	32,08	8,74
39	tnkslwfagalrhyf	19,80	3,41	wnwylwvafagalrhyf	31,41	4,31	wqwwlwwfvaalrkml	46,36	5,41	wqwwlwwfvglqgkmd	31,78	8,65
40	aqwwlqfagalrhyf	19,69	3,39	vnkhwdwafagalrhyf	31,09	4,26	tnkelnwagaalrkfl	45,33	5,29	nwkwnwvgyllrqfy	31,62	8,61
41	dnhrllqfagalwhfh	19,52	3,36	ssprlqwagalwhfh	30,50	4,18	takvwnnwagalrcfl	44,28	5,17	wvwnlnwfgalrphf	31,52	8,58
42	tnhyllwafagllrhyf	19,28	3,32	tnkswnwvagalrhyf	30,48	4,18	vmskwqlwvagalakfc	44,21	5,00	pnkkwqwwaallrhl	31,43	8,56
43	tnkkewifygalrqfy	19,21	3,30	wnkkewifygalakds	30,44	4,18	wqkwqywwagalrkfl	42,80	4,99	kmskwqwwagalrkfw	31,28	8,52
44	ynwylwvafagalrhyf	19,00	3,27	mqgwhwifawalrhyf	30,03	4,12	tnwnlnwfgalrhl	42,79	4,99	pnkdwnwaaalrksl	31,22	8,50
45	qnhyllwafagalrhyf	18,96	3,26	lnkewvafagalrhy	29,84	4,09	ttqwwlwfagalrhl	42,78	4,99	tgqkwwagagalrml	30,52	8,31
46	lnhalswafagalwhfh	18,92	3,25	tnwllwnwagalrhyf	29,57	4,06	wqwwlmwafagaqkml	42,58	4,97	wkwllhwfagalrhm	30,50	8,30
47	anhyllwafagalrhd	18,85	3,24	tnyknwvafawalrhyf	29,29	4,02	tnkewnwafagalrhyf	42,39	4,95	tnkdwnwvqalrhl	30,42	8,28
48	aqwylwvafagalrhyf	18,55	3,19	wqwwltwafagalrhyf	29,03	3,98	onkeaqwwagallshfy	42,38	4,95	ywknwnwamaalrml	30,40	8,28
49	tnqtlqfagalrhyf	18,50	3,18	tnhyllwifagalrhyf	28,70	3,94	wkwlltwfagalrhl	41,65	4,86	nknlnwvfgalrhl	30,33	8,26
50	tnhywqwwagalrkps	18,48	3,18	cgwwhwifagalrhl	28,59	3,92	wqywtwafagalrhyf	41,14	4,80	wqwwlwwfvgayrml	30,29	8,25
51	lnqaldwafagalrhyf	18,45	3,17	nakwvafagalrhyf	28,29	3,88	vmskwqwwagalsqfk	40,68	4,75	tgkewqwwagalrml	29,79	8,11
52	tnwylwvafagalrhyf	18,38	3,16	wqwwltwafagalrhyf	28,13	3,86	pnkewnwafagalrha	40,22	4,69	qmkwnwvagalrhmfl	29,69	8,08
53	alqzwnwafagalrhyf	18,34	3,15	wkwqplwafagalrhyf	28,03	3,85	wkwlltwfagalrhmfl	40,00	4,67	nqwwlwwfvgayrkm	29,69	8,08
54	asqrlqwagalrkfl	18,00	3,10	askennwafadalrhyf	28,00	3,84	asqqlqwagalshny	39,67	4,63	wqwwlhwasaalrml	29,40	8,00
55	vwqrlqwagalrhl	17,47	3,00	vgsdlqwagalrhm	27,79	3,81	wqdlwvafakllrvm	39,25	4,58	tnkdwnwvagalrml	29,14	7,93
56	tnkkewvafaycrfh	17,42	3,00	tnkewvafagalrhyf	27,76	3,81	wkvwvawdgalrkfl	38,76	4,52	vshkwvawagalrskfl	29,12	7,93
57	lthylqfagalrhyf	17,29	2,97	lsqrlqwagalakel	27,55	3,78	tswhwvafagalrkhf	38,62	4,51	nwkqwnwagaalrhl	28,95	7,88
58	tnkqwnwafagalrhyf	17,25	2,97	tnyknwvafaklmhfy	27,47	3,77	pnkevmmwfdgalrhl	38,17	4,45	pwknwvawagllrhl	28,94	7,88
59	qnhyllwafagalrhyf	17,17	2,95	dqwnwvafagalrhyf	27,39	3,76	ttqwlwvagalrhw	37,70	4,40	wqwwcmwafagalrml	28,82	7,85
60	asqrlqwagalrkfl	17,10	2,94	ttqwdwvagalrhm	27,37	3,75	qgskewifygtrlrgfh	37,56	4,38	mknkwnwvagalrhl	28,56	7,78
61	tnwylwvafagalrhyf	17,08	2,94	ttqylwvafagalrhd	27,13	3,72	nksvlnwvagalrkfl	37,12	4,33	qnkewhwagwllshwy	28,55	7,77
62	tnkkldwafagalrhyf	16,87	2,90	tnnavswagclrmwl	26,67	3,66	tnqymqwwagalrhyf	37,11	4,33	nkwkwnwfgalrhl	28,53	7,77
63	thkkewifagalrhyf	16,87	2,90	lsqrlqwagalrhd	26,66	3,66	tnwllwvafagalrhl	36,52	4,26	nwdnwnwvagalrml	28,31	7,71
64	tnskewvafagalrhyf	16,67	2,87	tnkkewifygalrhyf	26,66	3,66	vmskwqwwhkalrml	35,50	4,14	tgkewasagalrwm	28,21	7,68
65	qnhyllwafagalrhyf	16,62	2,86	tnlalswagallrhm	25,92	3,56	asqhlwvagalakfc	35,49	4,14	wqwwlhwvagalrhl	28,07	7,64
66	lnhyllwafagalrhyf	16,62	2,86	ttqqlwafagalrkfl	25,72	3,53	tnsqevqswagllshfy	35,27	4,12	nkdwnwagaalrhl	27,67	7,53
67	tnhyllwafagalrhyf	16,61	2,86	asprlqwvagalrkfl	25,68	3,52	ekwlltwfagalrhm	35,11	4,10	wqwwlhwagaalrml	27,64	7,53
68	lnhalswafagalrhyf	16,59	2,85	tnqllwvagalrkfh	25,65	3,52	ttqwwlwfagalrhl	34,60	4,04	lwnkwnwvagalrml	26,96	7,34
69	tnhyllwafagalrhyf	16,58	2,85	vgskewifygllshfy	25,21	3,46	ttqwdwaaagalrhw	34,17	3,99	nwkwnwvdtlshfl	26,29	7,16
70	tgskwnwafagalrhyf	16,55	2,85	asqhlqkagalrhm	25,10	3,44	vakkeqwwagllshfl	33,69	3,93	tnkdwnwvagalrhl	25,97	7,07
71	asqrlqwagalrhyf	16,40	2,82	wqwwlwfagalrcfl	25,08	3,44	tswevwnwafagalrhm	33,66	3,93	wqwwlhwaaalrml	25,58	6,97
72	tnhyllwvafagalrhyf	16,40	2,82	tnnalswafagaqrhfy	24,48	3,36	wqywsvifgtrlrgfk	32,98	3,85	nwkwnnwagasrql	25,00	6,81
73	cnwylwvafagalrhyf	16,34	2,81	asprlqwvagalrhyf	24,44	3,35	tsqeltwafagalrkhf	32,91	3,84	wqwwknsfagalrml	24,99	6,80
74	vwstlqfagalrhyf	16,34	2,81	tnhyllwvagalrhmfl	24,21	3,32	qnkewvifagalrhm	32,65	3,81	tnwllhwvagalrhmfl	23,61	6,43
75	tnyvtwafagalrkfl	16,28	2,80	tnhyllwvagalrhm	24,13	3,31	takvwnwagalrcfl	32,06	3,74	wqwwlhwvagalrhm	23,03	6,27
76	anhyllwvagalrhl	16,27	2,80	tnkwnwvagalrshfy	23,90	3,28	wqywtwvagyqwhfh	31,99	3,73	hssdwnwagaalrkfl	22,99	6,26
77	lneyllwafagalrhm	16,24	2,79	thwylwvagalrhm	23,75	3,26	pqkevhwvagalrhm	31,48	3,67	vskwnwatalakwl	22,95	6,25
78	tnhyllwafagalrhyf	16,13	2,77	tkhyllwvagalrhyf	23,64	3,24	pnkevhwvagalrhl	31,39	3,66	nwkwnwvagaalrhl	22,84	6,22
79	thhyllwafagalrhyf	16,08	2,77	wqwwltwagalrhm	23,37	3,21	ttqevqwwagalrhm	31,37	3,66	wqwwlhwvagalrhm	22,53	6,13
80	tnhrllqfagalwhfh	16,03	2,76	dtqdwvafagalrhm	23,04	3,16	tnwvwwvagalrhm	31,06	3,62	ygwwqwwagalrhm	22,23	6,05
81	vqpkwnwafagalrhd	16,02	2,75	tnkqtnwvagalrhl	22,96	3,15	vakkewifagalrhm	30,85	3,60	pnkkwqwwagalrhm	22,23	6,05
82	tnqrlwafagalrhm	15,88	2,73	vaskvqwwagalrkfl	22,83	3,13	tnselwvagalrhm	30,68	3,58	qnkwllhwaaalrml	22,07	6,01
83	asvylwvafagalrhd	15,73	2,71	vaakwvafagalrhyf	22,71	3,12	tsqevqswagalrhm	30,62	3,57	wqkewvayagalrhm	21,85	5,95
84	lnhyllwvagalrhyf	15,73	2,70	tnkwnwvagalrhm	22,66	3,11	ttqcmwvagalrhl	30,59	3,57	tgkewnwvagalrhm	21,73	5,92
85	tnhyllwafagalrhm	15,45	2,66	mqgwhwifavalrhm	22,56	3,10	tnmevqwwagalrhm	29,74	3,47	takvdrwvagalrhl	21,71	5,91
86	tnerlnwvafagalrhm	15,44	2,66	lmyqtwafagalrhm	22,50	3,09	wnpevqwwagalrhm	29,62	3,46	wkwllhwvagalrhm	21,70	5,91
87	tnqylwvafagalrhm	15,38	2,64	tnndlqwwagalrhm	22,39	3,07	wnkecnwvagalrhm	29,53	3,45	wqwwlhwvagalrhm	21,60	5,88

95	tnhylvfagalarqfy	14,87	2,56	vaskewifygtsrqpy	21,78	2,99	wnwnlwdfegalarhfy	27,40	3,20	vaykwnwagalarml	18,82	5,12
96	dsqrlqgwagalarhwh	14,72	2,53	tnhymllfagalwhfh	21,64	2,97	vpkelewagalarhfl	27,17	3,17	tqhelhwaealarml	18,67	5,08
97	tnnyylvfagvqrhfy	14,69	2,53	vnknkwvagalrhyf	21,19	2,91	vgskewifygalvmlf	26,85	3,13	vaskwnwagalarhwh	17,72	4,82
98	tnkkwnwvagalrhyf	14,25	2,45	tnykslwfagalrhl	21,16	2,90	tnpevqwsagalrtwl	26,83	3,13	tqkewwvagalrqlf	17,62	4,80
99	vgskwnwvagalrhyf	14,08	2,42	tnyvvwnfagalmhay	21,02	2,88	tqywlmwfavalrhl	26,76	3,12	wqwwlpdfagalrhhk	17,44	4,75
100	lnhylvfagalarqfy	13,80	2,37	tnnyllyfagalrkss	20,88	2,86	apevqvwgalrlshfy	26,69	3,11	tdavwnwvagalrhl	17,34	4,72
101	aqwylswkcgalarhfy	13,79	2,37	tnkkewifyalrhhfd	20,80	2,85	ttkvwvwwagalrpy	26,61	3,11	vmykwwvngalrefl	17,32	4,72
102	lehlrgwfvagalrwhf	13,70	2,36	tnkqwnwfkghlwhfl	20,47	2,81	tnkkewwfvavalrhyf	26,48	3,09	wkwhlhwfdgalrklf	17,13	4,66
103	yhhylkwfagalrhyf	13,65	2,35	tntylwwfvagalrvfl	20,42	2,80	wnpelwfvagalrkml	26,33	3,07	tqkewqswalvlakwl	17,11	4,66
104	tnhylvwfvghlrrhfh	13,61	2,34	takkewifogalrghf	20,38	2,80	asqglwaaagalrwhf	26,03	3,04	tnkawqwgagalarml	16,47	4,48
105	lnsylvwfvagalarhfy	13,57	2,33	tnykwnwfvagtlrhfp	20,25	2,78	asvwlqlwagalrml	25,75	3,01	qkqqlhwfdgalrklf	16,36	4,45
106	ecskwnwfvagalrhyf	13,52	2,32	vaskwqwwagalarhfl	20,03	2,75	pnvevhwvagalrmls	25,71	3,00	ymskqwwaaalarkeh	16,33	4,45
107	tqwwlpofagalrhyf	13,44	2,31	veskhwifagalrsmf	19,79	2,72	tacvwnyagalrhyf	25,40	2,96	tnkdwnswagalrml	16,23	4,42
108	asqrlqgwagslqhfy	13,21	2,27	vykkwqwwagalarhfy	19,57	2,69	wqywlwqgdalrml	25,31	2,95	nkwkvnwvngalrml	15,84	4,31
109	tnskwnwfvagalrtyf	13,00	2,24	vgskewifygtlayfy	19,50	2,67	kkkewwvagalrhyf	25,08	2,93	tnkdwnwvsgalrkfs	15,54	4,23
110	tnkqwnlfgalarhfy	12,99	2,23	tnhyslwfagaltvhfm	19,46	2,67	tnkkewifogalrghf	24,83	2,90	qahkyqwwngalshwy	15,52	4,22
111	ttlylqwfakalarhfy	12,98	2,23	wnhlywfvagtlrhfs	19,32	2,65	nwkswpwtvagalrhw	24,12	2,81	tnkevhwvtaalarcwl	14,27	3,88
112	tnnelqwfagalrhyf	12,78	2,20	tqyqlwvagalrhyf	19,21	2,64	tnkkewifogalrswl	24,03	2,80	twkknwvngalrml	14,05	3,83
113	ldhaewifogalarqfy	12,67	2,18	vadaskwfvagalrhm	19,13	2,62	thnlwlvfvtatrkml	23,89	2,79	vaskwnyagalrklf	13,59	3,70
114	vqqqlgwfvagtlrhfd	12,58	2,16	tewldwfvwalrhef	19,13	2,62	tykkwvifygalrghf	23,87	2,79	tnqrlqcygllrqlf	13,54	3,69
115	tchylwfvagalrhd	12,53	2,15	tnwevqwwagalqmwf	19,03	2,61	wnkevswdgalymwl	23,02	2,69	wnyevkswahalarml	13,33	3,63
116	asskwnfvagalrhyf	12,34	2,12	mtywvhwifagalrhhfd	18,91	2,59	wpgwldwvagalrhw	21,93	2,56	tsqewnwvngalrkfa	13,22	3,60
117	tnmylwhfvagalrhd	12,33	2,12	asadlqwwtgalrkft	18,58	2,55	asmevqwwagacrklf	21,23	2,48	pskevhwvagalrml	12,82	3,49
118	lnhylvdfagalarhfy	12,32	2,12	tnwvhwifagaeahfd	18,50	2,54	asmkqwwagavkrkfy	20,89	2,44	tsqelgwagallshcl	12,67	3,45
119	tnhylvwfvagalrhyf	12,30	2,11	tnknwnwvagalrghf	18,20	2,50	nsnrlqwfagalrnyf	20,80	2,43	paskwnwvagalrkl	12,62	3,44
120	tnqtlqwfagalrhyf	12,27	2,11	tnkqwnwfvagalrhy	18,19	2,49	vgskewifogalrml	19,34	2,26	takknwvngalrklf	12,43	3,38
121	tnhylvwfvagalrhd	12,24	2,11	asmevqwwagalrmyd	18,05	2,48	nskevswdgalrkmf	19,12	2,23	cnkavdwvngalrkmd	12,35	3,36
122	egwvqcaagalrhyf	12,06	2,07	vgskewifogalrghf	17,90	2,46	wppwvwwfvagalrml	18,96	2,21	tqglwvwwvagalrky	12,30	3,35
123	vqqqlgwfvagalrhyf	11,83	2,03	wqwwlwmfvagtlrhfy	17,79	2,44	ttqvnqswagalrml	18,77	2,19	tykdwnpvdalrml	12,22	3,33
124	ynnrqwfagalrhyf	11,79	2,03	mqghwfvagalrhyf	17,26	2,37	asqnlwdfagalrhyf	18,69	2,18	hqyavqwwagashfl	12,10	3,29
125	tnnrlqwfagalrhyf	11,78	2,03	vashwqwwvagalrklf	17,05	2,34	tnkewifogalrghf	18,69	2,18	qnkevhwvagalrml	11,97	3,26
126	asqrlqgwagalrnyf	11,77	2,02	atqmdwfvagalrhl	16,44	2,25	ymskqwwvagalrghf	18,58	2,17	tnkawqwwagalrml	11,74	3,20
127	lqwwlqcgagalrhyf	11,71	2,01	asqnlqwfagalrhyf	16,39	2,25	tnkewqvcagalrhl	18,42	2,15	hsywtqyfhadalrml	11,47	3,12
128	tnkkwnwvagalrhyf	11,66	2,01	mqkvwvwwagacrhyf	16,35	2,24	psqglwvagalrhw	18,12	2,11	hnkevhwvagalrml	11,18	3,04
129	tnhylvwfvagalrhyf	11,62	2,00	tnhyslwfagalrhhk	16,34	2,24	pnknwnwvagalrslf	17,83	2,08	tnkewwfvagalrklf	10,99	2,99
130	tnhylvwfvagalrhyf	11,46	1,97	tnkqwnwfvagalrhyf	16,08	2,21	tnqrkqwwvagalrghf	17,76	2,07	ymskqwwvagalrml	10,85	2,95
131	tnhylvwfvagalrhyf	11,45	1,97	tnhrylqwgalarhfl	15,97	2,19	hsqglwvagalrklf	17,54	2,05	nkyenwvtdalrkl	10,78	2,93
132	tnkketwfvagalrhyf	11,43	1,97	lnwypwfvagalrmy	15,82	2,17	stqglwdfvagalrghf	17,26	2,01	tnsdqlwvagalrkl	10,71	2,92
133	vgwvqcfvagalrhyf	11,17	1,92	tnwvtdwfvagalrhyf	15,65	2,15	pnkyvvcwslalrml	17,16	2,00	wqewwvfwagalrml	10,70	2,91
134	qnhylyfvagalrhyf	10,94	1,88	aakkmwfvagalrhyf	15,41	2,11	vakkwqwwvagalrklf	17,11	2,00	tqkewnwvagalrklf	10,55	2,87
135	thhrlwvagalrhyf	10,91	1,88	tqwnlwfagalrhyf	15,37	2,11	tsgevqswvagalrghf	17,04	1,99	nknwnwvagalrklf	10,53	2,87
136	thhylvwfvagalrhyf	10,79	1,86	lsqrlwfvagalrhyf	15,31	2,10	tnhkewvagalrhyf	16,81	1,96	tqknwnwvagalrklf	10,42	2,84
137	tnqelwfvagalrhyf	10,75	1,85	wnkqpdwfvagalrhl	15,26	2,09	vakkwqwwvagalrklf	16,78	1,96	thqetqtwagalrml	9,66	2,63
138	tnhrlwfvagalrhyf	10,70	1,84	tnnrlqwgalarhfl	15,12	2,07	ttkellwvagalrklf	16,42	1,92	tsqglwvagalrml	9,27	2,52
139	wngmlqwgalarhfy	10,69	1,84	tnhyslwfagalrhl	14,73	2,02	pnkevhwvagalrklf	16,39	1,91	takvwnwvagalrhl	9,26	2,52
140	tnkkewvfvagalrhyf	10,53	1,81	tnykwnwfvagalrmy	14,73	2,02	wqkewvfvagalrghf	16,14	1,88	tnqrkqwwagalrml	9,20	2,50
141	asqrlqgwagalrhyf	10,39	1,79	tnhylvwfvagalrhyf	14,70	2,02	qsgevqswvagalrml	15,98	1,86	aqkewvfwagalrhl	9,13	2,48
142	tnhylvwfvagalrhyf	10,37	1,78	tnmewwfvagalrhyf	14,52	1,99	wnvwnwvagalrklf	15,95	1,86	wlwpnlwfvagalrml	8,90	2,42
143	tnhylvwfvagalrhyf	10,31	1,77	asmevqwwagalarhfy	14,46	1,98	thpevqwwagalrghf	15,27	1,78	qtkkwnwvagalrml	8,50	2,31
144	tnhyslwfagalrhyf	10,07	1,73	kgwvhwfvagalrghf	14,36	1,97	asywlvwvagalrklf	15,22	1,78	ymskvwvagalrml	8,40	2,29
145	ecqrtqcfvagalrhyf	10,00	1,72	tnkkewvagalrklf	14,15	1,94	vashwqwwvagalrghf	15,12	1,76	tqkewnwvagalrml	8,07	2,20
146	vgwvqcfvagalrhyf	9,80	1,69	vaskwvwwvagalrklf	14,08	1,93	tnqrqtwfvagalrklf	14,58	1,70	tnqetqswagalrml	7,94	2,16
147	tnnrlqwfagalrhyf	9,76	1,68	tqglwdfvagalrghf	13,82	1,90	nwlhwnwvagalrklf	14,49	1,69	tagvwnwvagalrml	7,92	2,16
148	astrlqgwagalrhyf	9,60	1,65	tnkkewvagalrklf	13,73	1,88	asmevqwwagalarhfl	14,39	1,68	ymskqwwvagalrml	7,80	2,12
149	tnkqslwfvagalrhyf	9,52	1,64	asqrlqgwagalrhyf	13,62	1,87	vmskhtwvagalrklf	13,99	1,63	qnkevhwvagalrml	7,62	2,07
150	nshylvwfvagalrhyf	9,32	1,60	tnknwnwfvagalrhl	13,41	1,84	tnkellwvagalrhyf	13,82	1,61	qnhevhwvagalrhyf	7,61	2,07
151	vgwvqcfvagalrhyf	9,31	1,60	tnkeewvagalrhyf	13,25	1,82	lakvwnwvagalrghf	13,52	1,58	wpclewfvagalrml	7,52	2,05
152	vgqwnwfvagalrhyf	8,95	1,54	tnkkewvfwagalrghf	13,20	1,81	thpevqwwagalrghf	13,49	1,57	hqkewvfwagalrml	7,48	2,04
153	tnkkqwfagalrhyf	8,90	1,53	tnkaewvfwagalrklf	13,10	1,80	lknrlqwwvagalrhl	13,46	1,57	mnkethwvagalrhl	7,36	2,00
154	tnkkewvadalrhyf	8,76	1,51	tnnylvwfvagalrklf	12,92	1,77	vakkwqwwvagalrghf	13,33	1,56	nknwnwvagalrklf	7,17	1,95
155	asqrlqgwagalrhyf	8,66	1,49	tnnaysfvagalrhyf	12,53	1,72	tnnrlqgwagalrghf	12,42	1,45	vskkwnwvagalrml	7,02	1,91
156	avewlqcfvagalrhyf	8,60	1,48	tnkkwvfwagalrhyf	12,46	1,71	tsgevqswvagalrml	12,15	1,42	pnkvlwvagalrklf	6,85	1,86
157	cgkknwvagalrhyf	8,52	1,46	tnnrlqgwagalrklf	12,16	1,67	vasqvwvagalrml	12,14	1,42	pnkevhwvagalrklf	6,83	1,86
158	lnhylvwfvagalrhyf	8,23	1,41	tnknwnwfvagalrhl	11,73	1,61	pnkevhwvagalrklf	12,04	1,40	ymskwnwvagalrklf	6,43	1,75
159	tnnslwfvagalrhyf	8,18	1,41	tnkknwfvagalrhl	11,69	1,60	tnkewwvagalrghf	12,01	1,40	pnqrlqgwagalrklf	6,43	1,75
160	tnkketwfvagalrhyf	8,14	1,40	tnkvlwfvagalrhl	11,46	1,57	tkwvqwwvagalrml	11,65	1,36	qakewnwvagalrml	6,21	1,69
161	tnhylvwfvagalrhyf	8,10	1,39	tnkeevqwwagalrml	11,40	1,56	tnkkehfvagalrml	11,40	1,33	qnkevhwvagalrml	5,83	1,59
162	qnhylyfvagalrhyf	7,96	1,37	tnkrlhwvagalrhl	11,35	1,56	vmskqwwvagalrklf	11,24	1,31	vaskwnwvagalrklf	5,74	1,56
163	asqrlqgwagalrhyf	7,90	1,36	kdkkewvfwagalrklf	11,34	1,56	vakkwqwwvagalrghf	10,98	1,28	hqywtqewvagalrml	5,70	1,55
164	tnhrylqwfagalrhyf	7,85	1,35	tnpewwfvagalrhyf	11,10	1,52	thpevqwwagalrklf	10,50	1,23	vseevqwwagalrklf	5,61	1,53
165	tnhrlwfvagalrhyf	7,84	1,35	tnkewwfvagalrklf	10,96	1,50	pnkevhwvagalrklf	10,29	1,20	pnkevhwvagalrklf	5,45	1,48
166	tnqtlqwfagalrhd	7,18	1,23	tnkvmwvagalrhl	10,13	1,39	tnmednwvagalrghf	9,95	1,16	hqycqtwfvagalrghf	5,26	1,43
167	lnhylvwfvagalrhyf	7,03	1,21	tnnalqgwagalrhyf	9,42	1,29	tnkelpwfvagalrml	9,52	1,11	tnqetesvagalrml	4,72	1,28
168	ltqrlwfvagalrhyf	7,00	1,20	asqrlqgwagalrklf	8,90	1,22	tnknetnwvagalrklf	9,09	1,06	qnkevhwvagalrml	4,70	1,28
169	tnkketwfvagalrhyf	6,90	1,19	tnkyewwvagalrklf	8,54	1,17	tnkelnwvagalrklf	8,09	0,94	teesvqwwvagalrml	4,57	1,24
170	anhrqgwvagalrwhf	6,76	1,16	amekqwwvagalrks	8,26	1,13	tpknwnwvagalrklf	7,41	0,86	nknwvfwagalrklf	4,51	1,23
171	aaqrlwvagalrklf	6,71	1,15	tsqrlwfvagalrklf	7,96	1,09	pnkevhwvagalrklf	7,35	0,86	nwkrlqwygllrqlf	3,69	1,00
172	knhranwfvagalrhyf	6,63	1,14	vaskwvfwagalrghf	7,90	1,08	asmevqwwagalarhfl	7,34	0,86	qnkvvhwvagalrml	3,25	0,88
173	asqpcqwwvagalrklf	6,25	1,07	lsqrlqgwagalrghf	7,35	1,01	pnkevhwvagalrklf	6,82	0,80	takvwnwvagalrhl	3,57	0,70
174	lqnylqgwagalrhyf	5,87	1,01	hnhyslwfagalrklf	7,30	1,00	ttqweddagvagalrml	6,28	0,73	nknwnwvagalrhl	2,52	0,69
175	tnhrlwfvagalrhyf	5,73	0,99	anhywvfwagalrghf	6,86	0,94	wnkkedfvagalrghf	6,11	0,71	tnkewnwvagalrml	2,48	0,67
176	thhrlwfvagalrhyf	5,66	0,97	tnkkepifvagalrghf	6,75	0,93	tnkewnwvagalrml	5,94	0,69	tqkewnwvagalrml	2,06	0,56
177	tnkkewvfwagalrhyf	5,58	0,96	wnkqpnwfvagalrklf	6,61	0,91	tnskeefvagalrghf	5,42	0,63	tnqrqtwvagalrml	2,02	0,55
178	tnnrlqgwagalrhyf	5,53	0,95	tlkkkepifvagalrghf	6,39	0,88	snkewvfwagalrghf	5,28	0,62	tnkawqswvagalrklf	1,97	0,54
179	dlktekfvdgalrghf	5,50	0,95	tsqrqwwvagalrklf	6,19	0,85	tnkkewvfwagalrml	5,21	0,61	mnkevhwvagalrml	1,90	0,52
180	tnhylvwfvagalrhyf	5,15	0,89	tnhyslwfagalrhyf	6,19	0,85	ynkhsnwvagalrml	5,17	0,60	tnkdwnwvagalrml	1,84	0,50
181	tnhylvwfvagalrhyf	5,12	0,88	tnkrlqgwagalrklf	6,18	0,85	tnvenhwvagalrml	5,13	0,60	hhywtqewvagalrklf	1,53	0,42
182	tnkkwnwvagalr											

191	tnhrlmqfagparhfy	3,49	0,60	tnckpwydygylrkmv	3,38	0,46	tnqrlqwwagqdtkfl	2,55	0,30	ncaknwwagdermfe	0,24	0,06
192	tnkkemifagslrqfy	3,47	0,60	tnkkewcdygalrqfh	3,16	0,43	pnkeehwwdgahrmfl	1,78	0,21	vasklnwngagrmfl	0,24	0,06
193	tnyelvimygalrqdy	2,98	0,51	tsqrlqwwaganrqfy	1,95	0,27	tsqevqscagalrkfc	1,44	0,17	tgkeqcschdalmwl	0,22	0,06
194	tnhyllwtpagaqrhfs	2,87	0,49	asqdlnycagalrcfy	1,56	0,21	plkevhwdcgwvdmtdl	0,94	0,11	tgqevqspagalrawl	0,09	0,02
195	tnkkeqwfagqlrhfy	2,68	0,46	tnktwnwnagadrqfs	1,29	0,18	wnkkeqifygalpoms	0,90	0,11	tnqetqswagacrmfl	0,07	0,02
196	tnslmlwkatelrany	2,32	0,40	asqngwvnanqrhfy	1,06	0,15	tspecywkagatrmnl	0,87	0,10	tnkevevwdgaermwl	0,03	0,01
197	nnktensfalalrhew	2,22	0,38	vaskeqiwaganrqly	0,89	0,12	vaskwqwpagadrmwm	0,82	0,10	vaekwemttaglpewy	0,02	0,00
198	qnhsqwikhkalskfd	1,70	0,29	tnnascwpagalrpfm	0,47	0,06	pnkelndwagaaspkfl	0,24	0,03	tdqevqswagalpmvl	0,00	0,00
199	tnqtlqhfagyhrtqy	1,62	0,28	tnkepnefagalrhfd	0,31	0,04	tnqelnqsanahqksl	0,07	0,01	tgktdqcdagalrmvl	-0,05	-0,01
200	tcскеiefagahrmfy	1,27	0,22	vgskeqifdgaerkfl	-0,03	0,00	wnketnwtataltkel	0,02	0,00	tnqeeqseagalrmfl	-0,06	-0,01
	Lead from Gen4	x	c	Lead from Gen5	x	c	Lead from Gen6	x	c	Lead from Gen7	x	c
	asqrlqwwagalrkfl	27,47	4,72	tnkewnwifagalrhfy	37,47	5,14	pnkevhwdgalrmwl	86,14	10,05	nwknwnwagalrmfl	62,44	17,00
	tnkkewifygalrqfy	21,19	3,64	vaskwqwwagalrkfl	44,27	6,07	tsqevqswagalrmwl	51,98	6,07	tnkdwntwagalrkfl	46,61	12,69
	tnkqwnwifagalrhfy	23,44	4,03	tnkkewifygalrqfs	32,73	4,49	tnkewnwifagalrmfl	44,25	5,16	tnkewnwifagalrmvl	21,31	5,80
	tnqrlqwwagalrhfy	17,89	3,08	vgskeqifdgaerkfl	33,15	4,55	tnkelnwagalrkfl	43,98	5,13	qnkevhwdgalrmwl	13,07	3,56
	tnnrqwwifagalrhfy	20,44	3,52	wqwwlwfagalrhay	35,65	4,89	wkwllwifagalrkfh	60,50	7,06	ymskwqwwagalrmfl	30,27	8,24
	qnhyllwifagalrhfd	16,97	2,92	ttqglwdwifagalrhfl	38,43	5,27	ttqglwdwifagalrhws	47,17	5,50	pnkevhwdgalrmvl	11,36	3,09
	tnwylwifagalrhfh	18,63	3,20	mqwwhifagalrhfd	31,20	4,28	asqvlqwwagalrqfy	52,44	6,12	wqwwlwfagalrmfl	34,25	9,33
	aqwllqcfagalrhfy	16,34	2,81	tnkwnnwifagalrcfy	33,96	4,66	vakkwqwwagllshfy	58,64	6,84	tnqrlqwwyglrlqfl	24,23	6,60
	vgskwnwifagalrhfy	13,56	2,33	tnnrqwwagalrkfl	33,90	4,65	vmskwqwwagalrkfl	57,15	6,67	vaskwnwagqlrkwl	26,27	7,15
	tnhyllwifagalrhfy	16,03	2,76	tnkkewifygalrqfy	30,14	4,14	takwnnwagalrkfl	59,38	6,93	tgkewnwifagalrhwl	22,53	6,13
	tnhyllwifagalrhfy	20,60	3,54	lsqrlqwwagalrkfl	32,75	4,49	wqwwlwfagalrhfl	47,95	5,60	wkwllwifagalrkfl	35,26	9,60
	tnhyllwifagalrhfs	21,69	3,73	asmevqwwagalrmwl	30,80	4,23	wqwwlwfagalrkml	41,86	4,89	tsqevqswagalrmvl	9,33	2,54
	tnhyllwifagalrhfy	16,24	2,79	asqdlqwwagalrhfy	37,16	5,10	thpevqwwagalrmwl	44,70	5,22	qakkwqwwagllshfl	34,58	9,42
	tnqtlqwwagalrhfy	16,21	2,79	tnhyllwifagalrkfl	30,23	4,15	vaskwqwwagalrkfl	53,02	6,19	pnkkwqwwagllshwy	37,60	10,24
	lnhalswifagalrhfy	18,70	3,22	tnknwnwifagalrhfy	26,53	3,64	nwknwnwifagalrkfc	40,21	4,69	tnqetqswagalrmvl	8,09	2,20
	lnhyllwifagalrhfy	17,24	2,97	tsqrlqwwagalrkfl	28,60	3,92	tnkewnwifagalrhfy	41,73	4,87	wkwllwifagalrkfl	34,72	9,45
	tnhrlwifalfyrcfth	14,39	2,48	asqrlqwwagalrhfy	28,29	3,88	tnkkewifygalrqfs	38,29	4,47	nwknwnwifadalrkwl	34,40	9,37
	tnkkwnwifagalrhfy	16,20	2,79	tnwylwifagalrkfl	24,32	3,34	tnwnlwifagalrhfy	39,52	4,61	tnkawqwwagalrhfl	42,14	11,47
	tnkkewifagalrqfy	18,92	3,25	tnyknwifagalrhfy	25,81	3,54	asmevqwwagalrmfl	35,59	4,15	wqwwlwfagalrhfl	33,21	9,04
	tnnyllwifagalrnfld	17,02	2,93	tnnalswifagalrhfy	31,84	4,37	tnqrlqwwyglrlqfl	52,53	6,13	wqwwlwfvgayrkmd	33,18	9,03
	ecqrtqwwifagalrhfy	12,09	2,08	wnkqpnwifagalrhfh	35,41	4,86	vgskeqifdgaerkfl	48,51	5,66	vmskwqwwagalrmfl	28,84	7,85
	lnhyllwifagparhfy	12,45	2,14	tnhysllwifagalrhfm	33,69	4,62	wqywlwifadalrhfl	42,50	4,96	hgywqwtwifadalrqfy	20,48	5,58
	lthylqwwifagalrhfy	15,15	2,61	tnkkewifygalrkss	31,18	4,28	tnkkewifygalrqms	49,05	5,72	tnkewnwifagalrmfl	17,71	4,82

	Generation 9	x	c	Generation 10	x
1	dwknwnwifagalrnf	97,47	27,26	dwknwawagalknfl	47,705
2	dwktwnwifagalrkfl	93,96	26,28	dwknwnwifagalrkfl	34,395
3	nwknwewifagalrmvl	88,94	24,88	dwknwnwifagalrnf	32,7
4	dwknwnwifagalrnf	85,17	23,82	dwktwnwifagalrkfl	31,415
5	dwknwnwifagalrnf	84,82	23,72	dwknwawagalkvfl	30,365
6	nwknwewifagalrkfl	83,93	23,48	dwknwnwifagalrnf	29,75
7	nwknwawagalkkfl	79,77	22,31	dwkqwnwifagalrkwl	28,21
8	nwknwnwifagalrnf	79,46	22,22	dwknwswifagalrkfl	27,005
9	nwknwawifagalrnf	78,95	22,08	dpknwswifagalrkfl	26,995
10	dwknwnwifagalrnf	73,12	20,45	dwkewswifagalrkfl	26,845
11	nwknwewifagalrnf	70,37	19,68	dwktwnwifagalrkfl	25,92
12	nwknwnwifagalrnf	67,80	18,96	dwknwnwifagalrnf	24,96
13	nwknwnwifagalrnf	67,30	18,82	awmnwnwifagalrkfl	24,56
14	dwknwswifagalrhfl	66,48	18,59	dwknwewifagalrnf	24,42
15	nwknwawifagalrkfl	66,21	18,52	ewknwnwifagalrkfl	23,725
16	nwknwnwifagalrkfl	64,87	18,14	nwknwawifagalrnf	23,71
17	wkdwswifagalrnf	64,64	18,08	dwknwnwifagalrnf	23,64
18	nwknwnwifagalrnf	63,79	17,84	eqknwewifagalrkfl	23,615
19	awmnwnwifagalrkfl	60,02	16,79	dwknwewifagalrnf	23,08
20	nwknwnwifagalrnf	58,85	16,46	dwktwnwifagalrkca	22,535
21	nwknwswifagalrnf	58,21	16,28	dwknwnwifagalrnf	21,73
22	nwknwnwifagalrnf	55,20	15,44	dwkhnwifagalrnf	21,635
23	nwenwawifagalrkfl	55,15	15,42	dwknwqwwifagalrnf	21,285
24	wqknwewifagalrnf	53,09	14,85	dwknwntwifagalrnf	21,105
25	dwknwnwifagalrnf	52,71	14,74	dwhnwnwifagalrnf	20,945
26	lwknwnwifagalrkfl	52,51	14,69	dwknlewifagalrkfl	20,895
27	wkdwswifagalrnf	51,79	14,48	nwknwewifagalrnf	20,79
28	hwknwnwifagalrnf	51,16	14,31	awdntwnwifagalrkfl	20,36
29	nwknwnwifagalrnf	50,58	14,15	nwknwnwifagalrkfl	20,355
30	pwknwnwifagalrnf	49,27	13,78	dwkswnwifagalrnf	20,345
31	dwanwnwifagalrnf	47,76	13,36	dwknwnwifagalrnf	20,17
32	nwddwnwifagalrkfl	44,60	12,47	nwnwnwifagalrnf	20,095
33	vwknwnwifagalrnf	44,14	12,35	dwktwnwifagalrkfd	19,81
34	nwknwifagalrnf	43,51	12,17	vwkawewifagalrnf	19,465
35	nwknwawifagalrkfl	43,09	12,05	nwknwnwifagalrnf	19,225
36	dwktwnwifagalrnf	42,92	12,00	mwklwnwifagalrnf	19,155
37	nwknwnwifagalrnf	42,83	11,98	nwknwawifagalrnf	19,14
38	nwknwifagalrnf	42,44	11,87	kwawewifagalrnf	19,08
39	dwnwnwifagalrnf	41,65	11,65	dwknwnwifagalrkfl	18,86
40	nwknwawifagalrnf	41,64	11,65	nknwnwifagalrkfl	18,82
41	twwnwnwifagalrkfl	39,90	11,16	nwknwawifagalrkfl	18,74
42	tnkdwnwifagalrnf	39,69	11,10	nwknwawifagalrkfl	18,67
43	nwknwewifagalrnf	39,67	11,10	nwktwewifagalrkfl	17,935
44	vwknwnwifagalrnf	39,36	11,01	nwknwawifagalrnf	17,675
45	nwknwnwifagalrnf	38,46	10,76	qwkwnwnwifagalrnf	17,49
46	pwknwnwifagalrnf	38,27	10,70	nwknwnwifagalrnf	17,19
47	nwknwewifagalrnf	37,93	10,61	dwktwnwifagalrnf	17,1
48	qvknwnwifagalrnf	37,04	10,36	dcktnwnwifagalrnf	16,91
49	tnkdwnwifagalrnf	36,73	10,27	nwknwawifagalrnf	16,745
50	nwknwnwifagalrnf	36,71	10,27	dwknwnwifagalrnf	16,705
51	wqwnwawifagalrkfl	36,56	10,22	dykdwncwifagalrnf	16,675
52	tmhnwnwifagalrnf	35,83	10,02	nwknwawifagalrnf	16,63
53	tnqdwswifagalrnf	35,58	9,95	ddknwnwifagalrnf	16,585
54	nwknwewifagalrnf	35,08	9,81	nwmtnwnwifagalrkfl	16,525
55	tmpkwawifagalrnf	34,72	9,71	nwknwifagalrkfl	16,345
56	nwknwewifagalrnf	34,23	9,57	nwknwawifagalrnf	16,23
57	twcnwnwifagalrnf	34,18	9,56	nwknwnwifagalrnf	16,19

154	nwynwnwagatamsl	12,51	3,50	nwsnwnwngalrmwc	8,665
155	twknwnwgdalctwy	12,09	3,38	nwnkwdwedahdmwl	8,64
156	mwknwnwagalrqn	11,97	3,35	nwnknwnwnahtqhl	8,52
157	tcqkgwagqlsntl	11,93	3,34	nwnknwacagylrwwl	8,34
158	wcnwnwvwmgrhdl	11,67	3,26	dwhnwnwggaykkl	8,235
159	tvknwnwagplrmfl	11,43	3,20	ngknwlvwaeyyrkfn	8,21
160	tnkdwnwagalmfl	11,11	3,11	dwnknwnsamalckfn	7,95
161	tnkdwnwagalmks	10,69	2,99	dwnknwnwdgnlrkwl	7,93
162	cnkdwnwghalrhtl	10,19	2,85	nwnknwvwaearmfl	7,87
163	nwnknwewagarmfv	10,17	2,84	nwnknswwagayrmfn	7,8
164	wnsswnwagaltqfl	10,08	2,82	nwnknwvwaearmwl	7,735
165	nwnknwnsasaltqfl	8,88	2,48	nwnknwewagalmfl	7,64
166	pnkhwawwagplkkfl	8,86	2,48	wqknwewwagalmfl	7,47
167	nwnknwnwagalmfl	8,83	2,47	nwnknwvwaearmfl	7,38
168	wkktwvfwaklrpel	8,77	2,45	nwnknwvwaearmfl	7,315
169	wqwnwnwgdgprmw	8,74	2,44	dwnknwnwvwaearmfl	7,3
170	qakknwnwadlhrmfl	8,09	2,26	nwnknwnwvwaearmfl	7,295
171	nwnknwnwagalmfl	7,29	2,04	nwnknwnwvwaearmfl	7,26
172	nwnknwvwaearmfl	7,25	2,03	wvknwnwvwaearmfl	7,015
173	wknwnwvwnllrqmy	7,02	1,96	nwnknwnwhansllvfn	6,995
174	twknwnwagalmfl	6,59	1,84	wknknwnwanalymfn	6,99
175	tvqkgwagalmfl	6,38	1,78	dwnknwnwagalmfl	6,905
176	nwnknwvwaearmfl	6,00	1,68	nwnknwnwanaprmfn	6,525
177	nwnknwvwaearmfl	5,43	1,52	nwnknwnwagalmfl	6,385
178	qaklpnwvwaearmfl	4,99	1,40	nwnknwnwagalmfl	6,25
179	qykywvwaearmfl	4,80	1,34	nwnknwnwvwaearmfl	6,145
180	ngknplwvwaearmfl	4,73	1,32	nwnknwnwvwaearmfl	6,14
181	qykywvwaearmfl	3,92	1,10	dwnknwnwvwaearmfl	6,12
182	nwnknwnwvwaearmfl	3,66	1,02	dwnknwnwanapymfl	6,105
183	nwnknwnwvwaearmfl	3,50	0,98	dwnknwnwvwaearmfl	5,555
184	anssnwnwagalmfl	3,26	0,91	nwnknwnwvwaearmfl	5,34
185	nwnknwnwvwaearmfl	2,84	0,79	wkknwnwvwaearmfl	5,25
186	nwnknwnwvwaearmfl	2,77	0,77	wkknwnwvwaearmfl	5,105
187	nwnknwnwvwaearmfl	2,72	0,76	nwnknwnwvwaearmfl	4,905
188	twknwnwvwaearmfl	2,51	0,70	dwnknwnwvwaearmfl	4,86
189	tyknlwvwaearmfl	2,34	0,65	nwnknwnwvwaearmfl	4,83
190	qykywvwaearmfl	2,18	0,61	nwnknwnwvwaearmfl	4,265
191	lssswvwaearmfl	1,72	0,48	nwnknwnwvwaearmfl	4,145
192	qakknwnwvwaearmfl	1,70	0,47	nwnknwnwvwaearmfl	3,99
193	nwnknwnwvwaearmfl	1,31	0,37	nwnknwnwvwaearmfl	3,91
194	tmsnwnwvwaearmfl	1,28	0,36	wqknwnwvwaearmfl	3,375
195	hknwnwnwvwaearmfl	1,01	0,28	dwnknwnwvwaearmfl	3,015
196	wnsswnwvwaearmfl	0,80	0,22	dwnknwnwvwaearmfl	2,005
197	qndwnwnwvwaearmfl	0,66	0,18	nwnknwnwvwaearmfl	1,815
198	nwnknwnwvwaearmfl	-0,03	-0,01	nwnknwnwvwaearmfl	1,5
199	nwnknwnwvwaearmfl	-0,32	-0,09	dwnknwnwvwaearmfl	1,125
200	nwnknwnwvwaearmfl	-0,69	-0,19	dwnknwnwvwaearmfl	0,58
	Lead from Gen8	x	c	Lead from Gen9	x
	nwnknwnwvwaearmfl	94,13	26,33	dwnknwnwvwaearmfl	33,02
	nwnknwnwvwaearmfl	58,44	16,35	dwnknwnwvwaearmfl	34,85
	nwnknwnwvwaearmfl	79,60	22,26	nwnknwnwvwaearmfl	14,81
	dwnknwnwvwaearmfl	97,48	27,27	dwnknwnwvwaearmfl	28,91
	nwnknwnwvwaearmfl	43,31	12,11	dwnknwnwvwaearmfl	30,15
	nwnknwnwvwaearmfl	60,17	16,83	nwnknwnwvwaearmfl	18,46
	nwnknwnwvwaearmfl	44,71	12,51	nwnknwnwvwaearmfl	18,38
	nwnknwnwvwaearmfl	41,71	11,67	nwnknwnwvwaearmfl	15,55
	nwnknwnwvwaearmfl	39,43	11,03	nwnknwnwvwaearmfl	14,81
	wkktwvfwaklrpel	38,16	10,67	dwnknwnwvwaearmfl	22,10
	wnsswnwvwaearmfl	48,29	13,51	nwnknwnwvwaearmfl	13,58
	tnkdwnwvwaearmfl	50,43	14,11	nwnknwnwvwaearmfl	15,03
	qykywvwaearmfl	35,09	9,81	nwnknwnwvwaearmfl	14,92
	nwnknwnwvwaearmfl	33,67	9,42	dwnknwnwvwaearmfl	29,59
	pnkhwawwagplkkfl	36,27	10,14	nwnknwnwvwaearmfl	16,74
	tmsnwnwvwaearmfl	37,65	10,53	nwnknwnwvwaearmfl	17,50
	wqwnwnwvwaearmfl	21,30	5,96	wkknwnwvwaearmfl	18,82
	dwnknwnwvwaearmfl	32,28	9,03	nwnknwnwvwaearmfl	14,67
	tnkdwnwvwaearmfl	30,14	8,43	nwnknwnwvwaearmfl	22,56
	nwnknwnwvwaearmfl	37,41	10,46	nwnknwnwvwaearmfl	13,78
	tvqkgwagalmfl	29,28	8,19	nwnknwnwvwaearmfl	18,43
	qakknwnwvwaearmfl	33,11	9,26	nwnknwnwvwaearmfl	14,41
	wqwnwnwvwaearmfl	28,90	8,08	nwnknwnwvwaearmfl	14,53