Genome-wide investigation of the AP2/ERF superfamily and their expression under salt stress in Chinese willow (*Salix matsudana*)

Running title: AP2/ERF superfamily in Chinese willow

Jian Zhang1a, Yuna Jiang1a, Shi zheng Shi2a, Fei Zhong1, Guoyuan Liu1, Chunmei Yu1, Bolin Lian1, Yanhong Chen 1\*

1Lab of Landscape Plant Genetics and Breeding, School of Life Science, Nantong University, Nantong, Jiangsu Province, China

2 Jiangsu Academy of Forestry，Nanjing 211153，China

aThese authors contribute equally to this work

\*Corresponding author. E-mail: chenyh@ntu.edu.cn ; FAX: 86-513-85012818; Tel: 86-513-85012818

E-mail address for other authors

Jian Zhang: 56071007@qq.com

Yuna Jiang :18252098108@163.com;

Shizheng Shi: shshzn@163.com

Fei Zhong: fzhong@ntu.edu.cn;

Guoyuan Liu: cjqm1989@126.com;

Chunmei Yu: ychmei@ntu.edu.cn;

Bolin Lian: lianziadd9@163.com;

File S1 AP2.hmm

HMMER3/f [3.1b2 | February 2015]

NAME AP2

ACC PF00847.20

DESC AP2 domain

LENG 54

ALPH amino

RF no

MM no

CONS yes

CS no

MAP yes

DATE Fri Aug 3 10:13:30 2018

NSEQ 73

EFFN 18.209900

CKSUM 3632432801

GA 20.60 20.60;

TC 20.60 20.60;

NC 20.50 20.50;

BM hmmbuild HMM.ann SEED.ann

SM hmmsearch -Z 45638612 -E 1000 --cpu 4 HMM pfamseq

STATS LOCAL MSV -8.1511 0.71908

STATS LOCAL VITERBI -8.6976 0.71908

STATS LOCAL FORWARD -3.9453 0.71908

HMM A C D E F G H I K L M N P Q R S T V W Y

 m->m m->i m->d i->m i->i d->m d->d

 COMPO 2.32363 4.23749 3.31158 2.75484 3.16732 2.65190 3.77385 3.19116 2.31296 2.98860 4.06360 3.16832 3.71101 3.23270 2.43625 2.73880 3.08870 2.84999 3.49959 2.94510

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 0.02134 6.52953 3.92963 0.61958 0.77255 0.00000 \*

 1 2.78119 2.86059 3.23429 2.88131 4.61512 3.61164 4.76061 4.35083 2.85876 3.21006 5.26177 3.64315 1.60727 3.86851 3.35046 1.70840 2.19775 3.14791 6.66508 5.27463 1 p - - -

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 0.00221 6.51041 7.23275 0.61958 0.77255 0.36914 1.17548

 2 3.33402 3.21506 2.59490 3.52982 5.52360 2.01572 3.20231 3.14137 1.66579 2.83823 5.26631 3.46482 4.29484 3.49668 2.44367 2.86337 4.02976 2.46141 3.95824 5.28395 2 k - - -

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 3 3.93649 5.31540 5.87322 4.27474 2.61115 5.10287 3.75527 1.53096 5.05055 3.00609 3.95878 4.14679 2.80774 5.18686 4.18679 3.28556 4.16866 1.56284 5.93673 1.59654 3 i - - -

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 4 3.29548 6.29420 3.68597 3.25415 5.63573 4.04123 4.08817 3.13081 1.41091 4.59797 3.93738 4.03589 2.92566 2.89993 1.62239 2.22258 3.39907 2.64856 6.72900 5.32021 4 k - - -

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 5 4.29259 4.12784 6.60189 6.66811 7.20017 0.17564 7.26930 6.74723 6.72036 6.43303 7.14015 2.93069 5.89226 6.72543 6.65476 2.95055 4.89764 5.70372 8.53077 7.55445 5 G - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 6 5.16925 6.31829 7.35528 6.93618 5.70090 6.94643 7.80141 2.16258 6.93896 3.17185 5.43278 7.11093 7.09669 7.21048 7.13370 6.43237 5.43096 0.25115 7.95209 3.31156 6 V - - -

 2.68632 4.42239 2.77534 2.73138 3.46368 2.40527 3.72509 3.29368 2.67755 2.69369 4.24704 2.90361 2.73754 3.18161 2.89815 2.37901 2.77300 2.98533 4.58491 3.61518

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 7 3.85574 3.92584 3.80342 3.95425 3.34720 4.77395 3.88216 4.28065 3.18860 3.43835 4.83347 4.41646 5.15772 4.25330 1.22083 2.31591 2.53431 4.02968 3.52635 1.57962 9 r - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 8 3.57023 5.50371 5.21331 4.62615 2.04380 5.01866 5.27377 3.96659 2.77754 3.00764 4.61574 4.90680 5.38913 2.34643 1.89096 4.29455 4.19195 3.13635 2.00376 1.58372 10 y - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 9 3.79124 4.54383 1.47378 2.90600 5.64957 3.22361 2.28790 3.15578 2.88805 4.60933 5.34417 2.33969 4.95822 3.50870 1.72750 3.09508 3.33604 4.69478 6.73593 3.77284 11 d - - -

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 10 2.91673 6.29724 3.36173 3.13900 4.13545 3.42034 3.60530 3.74565 1.20433 3.31204 5.33846 3.50547 1.84022 3.85055 2.26922 2.88713 3.44688 4.00201 6.73121 5.32156 12 k - - -

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 11 2.87187 4.23758 3.92942 3.37335 5.43173 3.83441 3.62771 4.09174 1.54733 4.40538 5.15709 2.47767 4.30134 3.73439 2.11286 1.69391 2.64316 3.82874 3.17097 4.26378 13 k - - -

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 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 14 2.91467 4.44032 4.05498 3.03496 5.60538 3.43611 4.76089 4.28314 1.74064 2.96436 5.31731 3.33259 4.96565 2.75903 1.24787 2.22391 4.02498 3.06562 6.71371 4.47327 16 r - - -

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 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 16 2.26317 5.52420 4.83960 2.53023 2.77069 4.86622 5.12907 3.11152 3.43772 2.03792 3.41299 3.41006 5.24364 3.90605 2.14127 3.10808 3.14262 1.53830 6.11363 4.88992 21 v - - -

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 17 0.57713 2.68716 6.81312 6.70728 6.53330 3.91852 7.00894 5.94141 6.50958 5.68901 6.50681 5.88863 5.82485 6.55215 6.43222 2.73155 2.68511 1.64287 7.96065 6.90065 24 A - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 18 3.56201 4.41919 4.11315 1.55458 3.51602 3.72772 2.66438 3.91718 3.23782 3.25185 5.22554 3.43214 4.99255 2.00083 2.89311 2.60609 3.01336 3.30580 4.58859 2.24632 25 e - - -

 2.68852 4.42086 2.77119 2.73115 3.46634 2.40661 3.72775 3.28484 2.67752 2.69336 4.24970 2.90556 2.73972 3.18427 2.89333 2.38075 2.77692 2.98280 4.57553 3.61220

 0.59336 0.82435 4.70891 1.20819 0.35487 0.48576 0.95510

 19 3.87193 5.58350 4.76433 2.63291 2.24030 3.41961 4.10978 2.97531 4.14964 3.79406 4.68716 3.05972 2.01031 4.44949 3.92469 2.88170 4.10367 3.17415 1.34818 2.90827 30 w - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

 0.18169 6.52119 1.80382 0.61958 0.77255 0.42654 1.05776

 20 3.26960 2.87379 3.39079 3.37255 4.08106 2.87970 4.63163 4.92598 2.07653 4.42391 4.16941 2.35808 4.83556 3.01846 2.32464 1.95750 2.64359 2.73046 6.57068 2.71030 31 s - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

 0.03318 6.35209 3.47719 0.61958 0.77255 1.43310 0.27255

 21 3.35505 6.15796 2.28615 2.03222 5.50413 2.54300 4.60505 2.71206 1.97577 4.46371 5.19833 2.53949 4.81160 3.22972 3.04259 2.29644 2.27899 3.46936 6.58999 5.17837 32 k - - -

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 0.77771 0.81924 2.30482 0.44949 1.01598 1.07949 0.41517

 22 3.07809 6.12955 2.37623 2.86481 5.47569 2.04341 4.57436 4.96282 3.05459 4.43526 5.17016 1.38236 4.78025 2.80017 2.01815 2.85774 2.85516 4.52081 6.56135 5.14907 36 n - - -

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 23 2.87657 4.53621 3.92385 3.20694 5.50599 1.09382 4.63242 4.12569 2.31674 4.46898 5.20853 1.64709 4.83851 3.34964 2.89725 2.96718 3.42235 4.55402 6.60193 5.19501 37 g - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

 0.34697 6.36198 1.23289 0.61958 0.77255 1.58703 0.22883

 24 3.14873 3.40647 4.10428 3.54216 4.55276 4.38118 4.60980 2.77759 1.36864 3.60972 3.68783 3.27350 4.76562 3.84667 2.13978 2.24232 3.15247 2.77643 5.93688 2.55783 38 k - - -

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 25 3.54846 3.88757 3.85282 3.10391 2.38817 4.34365 3.91481 2.88643 1.77582 4.21233 4.98320 3.39933 4.73563 2.82806 1.28049 2.66044 3.42076 4.29242 6.39248 4.13666 43 r - - -

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 0.00307 6.18288 6.90523 0.61958 0.77255 1.23374 0.34418

 26 3.05402 3.65486 4.42569 3.86088 3.50143 2.77308 3.31276 2.90555 1.73002 2.93576 3.56451 4.29737 4.99167 2.62408 1.83173 3.41369 3.02227 2.24360 6.03095 4.78181 44 k - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 27 2.97479 4.46988 3.16427 3.40607 3.28260 3.33910 3.04948 4.23867 1.96519 3.23671 3.70043 2.59046 4.87527 2.88990 2.17725 2.04815 2.36949 4.58072 6.63270 3.28311 45 k - - -

 2.68546 4.41384 2.77611 2.73215 3.46445 2.40382 3.72536 3.29445 2.67624 2.69446 4.24781 2.90377 2.73805 3.18154 2.89570 2.37939 2.77577 2.98610 4.58568 3.61531

 0.34992 1.22262 7.13557 0.61320 0.78004 0.17245 1.84265

 28 2.10379 4.14117 3.32224 3.30666 5.64666 4.56529 4.14667 4.56262 1.24277 4.60693 5.34243 3.71418 4.95875 3.07664 1.66984 2.76340 2.51944 3.49263 6.73447 5.32364 49 k - - -

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 29 3.46331 6.27193 3.65883 3.49950 5.60353 2.96429 3.78373 2.93996 2.57520 3.93880 5.31614 3.12255 4.96581 2.87721 1.65768 2.12929 2.41540 3.94160 4.40279 1.95477 50 r - - -

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 30 4.05514 5.42158 6.01163 5.40754 0.72783 5.21920 4.32952 2.44421 3.53029 2.64620 4.52982 5.36941 5.57866 5.30808 5.18984 4.53307 4.28686 1.75123 5.91957 2.95120 51 f - - -

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 31 3.42962 6.28152 4.05102 3.49511 5.61728 3.17515 3.38391 5.09666 3.24144 4.09878 5.32465 3.17995 2.87667 2.80166 2.50216 1.38804 3.11115 4.66715 1.83627 2.68083 52 s - - -

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 32 2.71003 3.71522 5.90329 5.28800 4.40582 3.95445 5.44233 1.69866 3.02245 1.44669 3.54428 5.27117 2.98803 5.20392 5.08077 3.85344 4.17109 1.36769 5.93589 4.75992 53 v - - -

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 33 2.44737 4.53901 4.05709 2.58475 4.36094 1.45453 4.76213 4.25571 1.51754 3.96611 5.31334 3.06022 4.96659 3.53151 3.99303 2.52485 2.35654 4.65139 6.71043 4.52644 54 g - - -

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 34 3.02058 6.27644 3.61533 3.22931 5.61818 3.88467 3.29239 3.41264 1.10556 3.62700 5.31798 4.01753 4.94216 2.98326 2.94114 3.22378 1.54350 4.66529 6.71110 3.39964 55 k - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

 0.00222 6.50559 7.22793 0.61958 0.77255 0.34840 1.22356

 35 4.99912 6.37733 6.25333 3.80431 1.28942 5.94617 2.12061 4.88990 5.52549 2.75442 5.51605 5.75599 6.28272 5.71068 2.96920 4.01779 5.22114 4.71984 5.73578 0.92899 56 y - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 36 2.85252 7.37607 1.88344 2.73792 6.68018 0.61091 5.53423 6.22429 3.87553 5.67178 6.48518 2.92320 3.12191 4.68202 5.12637 3.73507 4.99084 5.75531 7.80772 6.27867 57 G - - -

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**File S2 SmAP2\_domain\_new.hmm**

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RF no

MM no

CONS yes

CS no

MAP yes

DATE Tue Jul 23 05:06:49 2019

NSEQ 39

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CKSUM 3201926944

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STATS LOCAL FORWARD -4.0315 0.71905

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 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 21 2.81540 5.05770 2.71563 2.42325 4.42316 3.37362 3.67838 3.88535 1.76100 3.42046 4.26777 1.82438 3.87657 2.83474 2.63063 2.80198 3.07029 3.52167 5.53362 4.20600 22 k - - -

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 22 2.12206 4.35630 3.02689 2.76649 4.25884 3.03574 3.99116 3.69123 2.89820 3.35418 4.18641 2.61604 3.71947 3.21620 3.27314 1.38664 2.78032 3.20912 5.57081 4.28907 23 s - - -

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 23 2.20240 1.76505 3.86331 3.46807 3.89480 2.99495 4.26096 3.15764 3.35607 2.97881 3.87037 3.46815 3.72329 3.64121 3.58246 1.93378 2.34944 2.77121 5.33920 4.15118 24 c - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 24 2.80381 4.79397 3.37093 2.72595 3.97528 3.58388 3.62385 3.42652 1.93082 3.01008 3.88216 3.15379 3.94876 2.73560 1.80811 2.87370 3.00106 3.15329 2.97601 3.91517 25 r - - -

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 25 2.83586 5.07081 3.04358 2.53564 4.44936 3.49713 3.59885 3.85203 1.84873 3.34510 4.17562 2.20352 3.90585 2.73288 1.84870 2.82585 3.04352 3.50346 5.45030 4.18417 26 r - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 26 2.78208 5.16565 2.39163 1.44535 4.50864 3.26482 3.70022 3.97912 2.56117 3.51849 4.34628 2.41295 3.18908 2.85613 3.04705 2.73323 3.05611 3.58637 5.69065 4.27731 27 e - - -

 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 27 2.37401 4.27437 3.32493 2.89068 3.86652 1.90505 3.93829 2.66407 2.87432 2.92594 3.80040 3.21561 3.77483 3.20296 3.23008 2.28912 2.48045 2.83900 5.25742 4.01097 28 g - - -

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 28 2.96113 4.94838 2.97026 2.72716 4.12979 3.43234 3.88611 3.77620 2.54131 3.26875 4.29447 3.18752 3.98761 1.06905 2.82330 3.00502 3.25832 3.49996 5.38471 4.08519 29 q - - -

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 29 2.39224 4.63741 2.96550 2.50902 4.10916 3.27354 3.70549 3.52337 2.49513 3.13412 3.95435 2.40378 3.77331 2.87288 2.66504 2.13111 2.41118 3.15688 5.36807 4.05623 30 s - - -

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 30 3.04974 5.13008 3.47263 2.81225 4.57566 3.65787 3.61185 3.92603 1.57145 3.37917 4.25930 3.20562 4.03234 2.75181 1.33877 3.05312 3.21862 3.61570 5.42584 4.26309 31 r - - -

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 31 2.72485 2.63985 3.44095 2.89643 4.06193 3.48238 3.85237 3.36023 1.33520 3.06771 3.97232 3.28600 3.96934 3.06036 2.73098 2.84659 3.01277 3.07147 5.32698 4.09081 32 k - - -

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 32 2.99020 4.73507 3.71238 3.64545 4.77038 0.44008 4.74466 4.43453 3.85886 4.05637 5.03875 3.87760 4.13337 4.16453 4.06247 3.17000 3.48999 3.91660 5.79581 4.88261 33 G - - -

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 33 3.16411 5.26601 3.61985 2.90151 4.75789 3.75969 3.65828 4.08738 1.33638 3.50019 4.37513 3.28503 4.11513 2.78988 1.35905 3.15281 3.31532 3.77003 5.51483 4.37258 34 k - - -

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 34 3.09517 5.07360 3.08509 2.85082 4.27294 3.53984 4.00870 3.94775 2.65643 3.42535 4.45340 3.31006 4.10113 0.86169 2.93285 3.13602 3.39521 3.66450 5.50510 4.21795 35 q - - -

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 35 2.93754 4.43842 4.34728 4.01811 3.67332 3.88881 4.79336 2.05588 3.88839 2.33392 3.61644 4.18118 4.44226 4.23774 4.08488 3.40467 3.29639 0.84273 5.48425 4.22477 36 v - - -

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 36 3.48876 4.91181 4.08102 3.84325 2.31680 4.02168 3.70574 3.47622 3.69626 2.88764 4.13489 3.92826 4.49291 3.96293 3.84563 3.60829 3.77688 3.35477 3.96591 0.73369 37 y - - -

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 37 3.34118 4.75700 4.44902 4.09236 3.20452 4.18639 4.69747 2.42029 3.85853 0.69865 3.18181 4.35206 4.59566 4.18789 4.00696 3.78031 3.62906 2.49917 5.13973 3.89954 38 l - - -

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 38 2.99020 4.73507 3.71238 3.64545 4.77038 0.44008 4.74466 4.43453 3.85886 4.05637 5.03875 3.87760 4.13337 4.16453 4.06247 3.17000 3.48999 3.91660 5.79581 4.88261 39 G - - -

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 39 1.59914 4.24990 3.46480 3.26673 4.46892 1.21575 4.37942 3.84590 3.39940 3.57820 4.42350 3.40343 3.77606 3.66911 3.69228 2.49550 2.82137 3.28196 5.79966 4.61061 40 g - - -

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 40 3.70430 4.95626 4.60305 4.27253 1.48070 4.42997 2.96239 3.54264 4.12339 2.89202 4.10742 4.06575 4.73722 4.11869 4.18745 3.78056 3.91914 3.42297 3.62655 0.97553 41 y - - -

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 42 2.61836 4.94871 2.68471 2.25797 4.22985 3.39780 3.60536 3.66882 2.02770 3.22495 3.30019 2.65992 3.80048 2.73195 2.83713 2.61586 2.40036 3.30461 5.42189 4.05690 43 k - - -

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 43 2.09176 5.00970 2.58437 1.32161 4.45813 3.31553 3.82899 3.80446 2.69080 3.45683 4.32485 2.92480 3.88646 2.99990 3.14933 2.78109 3.08267 3.44327 5.69652 4.32574 44 e - - -

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 44 2.82432 5.32543 2.20408 1.48785 4.60830 3.32845 2.57926 4.10844 2.56208 3.60694 4.40634 2.79079 3.85105 2.72912 3.07944 2.75266 3.07873 3.69612 5.75785 4.31463 45 e - - -

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 45 1.89213 4.69953 3.07059 2.60082 4.19837 3.34139 3.75985 3.58200 1.79104 3.20386 4.03126 3.05972 3.84180 2.92570 2.86420 2.46023 2.68723 3.21850 5.43192 4.13525 46 k - - -

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 46 0.71740 4.32900 3.72210 3.53251 4.30684 3.14567 4.52389 3.46939 3.55540 3.33931 4.35019 3.61630 3.90819 3.87557 3.78454 2.68000 2.97434 3.08156 5.70957 4.53902 47 a - - -

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 47 0.79752 4.25119 3.61223 3.40991 4.38269 2.81224 4.44221 3.65783 3.46810 3.47770 4.37416 3.49759 3.81815 3.76456 3.72168 2.54984 2.86017 3.17121 5.74344 4.56816 48 a - - -

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 2.68618 4.42225 2.77519 2.73123 3.46354 2.40513 3.72494 3.29354 2.67741 2.69355 4.24690 2.90347 2.73739 3.18146 2.89801 2.37887 2.77519 2.98518 4.58477 3.61503

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 56 3.16197 5.12376 3.35037 2.94063 4.55540 3.62517 3.88329 3.99820 0.79769 3.52257 4.47764 3.35481 4.11510 3.06666 2.48904 3.19358 3.40270 3.69644 5.53240 4.37555 57 k - - -

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