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 GSMLGGVSWNSRDIIFARAFDWYTPGGSFYSONFRDYNRTDASWTRIPGACDQGEFYTIPYGPAITDSAG
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 SGSYGRNAVSLFLNNSWNPSPNGPDGFVNGELQRFNFDIGQNVQSETNFNIDMNYTMPVDGLASDLNIAFGG
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 RSAIAGVGCPAALAAGRNLALCLQEAGVPGAADLSSVSFYTNDFSTTTQGVDLVATWNLDGDMGNGTLN
 AAWNWTETEVDNAGQEVNRNRVVGLENQNPQNRGVFTYNHFLNDFRFLARLRTYDDWIDSGWSGDTSRG
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>k141_475396_1 # 3 # 3089 # 1 #

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SSPLIVVDGVPFSGNLNSINPQDIESTSVLK **DASSTSLYGNK**ASNGVLLINTKNGKKNKKASISLDSKVG
LTQRGAKDYNVINNPKEFYETYHSIFANSEFYENDQGAGMTEAEAYKYSADNLVDNLGYNVYDVTNATL
VDPSTGLLNPAANLLVEDYWEDSLFRDRADFKSTNLNISGGSENIDYYFSLGTEENNGYTVRSNFNRHST
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PNNPGGYAYDMGKVQTFDDGSTREKRYAIGEHLAVIENTIETNEGDI FNGNLRGKIDLPYGFKFEYVAN
YLTQANKFTDFSGPGSGAFAQSNNGLLTNTRNNFSAFTNQQLLTWSEEDDSNSFDFLLGHETYVEKFTTL
SLYKNNLIGDLSPILDNASVYGSASNYNQKYVTEGYFSRFIYGMDDTYLTLTGRYDASSVFHPDERWGA
FWSAGGSWIMSNEDEFMKNSSVIDYAKFSINYGTSGNDRINYASGGRNYVAYENQYSISENNGALAQSLFS
LGSKEITWEKSSTLNISYDLSLNDKLNLSLAYYTKETKDLLFNNPIPLSTGQSSRPENLGTMVNSGLELE
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DDSGAEVVTEDEHSVATENGRTFLGKTAIPDFFGGFGTNNVQYGNFSLNLQFSYQVGGYGLDYEYFRLLGID
DEITNIPDYDKTWTNNQSADLPRVDPLGTDQYKTS DRYLTS LTYLSLNNINLGYTFKNEELKKYNIDSV
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>k141_1470354_1 # 1 # 432 # -1 #

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gc_cont=0.368

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VIQASGQPGSDPIIRIRGFGSINADSAPLIVLDGVPYSGSLSSINPQDIESTSVLK **DASSTSLYGNK**ASN
GVLL

>k141_935608_1 # 3 # 3092 # 1 #

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gc_cont=0.352

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VVVAYGTQSKASLTGVSVIDAEQIENSTYSNPVKSLEGLVSGLRIVQSSNAVPGSSPTIRIRGFGSINAS
SAPLIVVDGVPYNESLNTINPQDIESTSVLK **DASSTSLYGNK**ASNGVLLINTKKGQKNKKSTISLDSRIG
VTQRGAKDYNVTSNPKHFYETYHSIYANSEYNDQNTNGDGMTEAEAYQYATDNLISNVGYNVYDVTNAAL
VDPSTGLLNPAANLLVEDYWEDALFRDNADFKSTNLNISGGANNIDYYFSLGTEENNGYTLRSNFNHST
RLKINADEIAKNISLSADFSYANTKSQAVPSTFSGGAPASFYSNSFSFVRRVAPIYVPVYKYDQNWNPILN
SKNASGYEFDMGAEQTFADGSTRGSRKYAVNEHPLAVIENTIQTNEFDIFNGSIRGKIDLPYGFNF EYVS
NYLSRASKSTDFSQTGSTVFATSNNGTLVNGRNNFSAFTNQQLLTWKNETDGNSFDFLLGHETYVEKFTT
LSMYKTNLIGDVSP IINNASVYKSASNYNTKYATEGYFSRFIYGKDDTYFLTLTGRYDASSVFHPDERWG
VFWSAGGSWIMSNEEFMKNLSAIDYAKFSVNYGTSGNDRIFYASGGRNYVAYENQYEITENNGALAQSLF
SLGSKEISWEKSSTLNVSYDLSINNKNVNL LAYYIKETKDLLFNNPIPLSTGQPSKPENIGTMENSGLEL
EAGWMPYDKDDLSISLNANLSTLKNELTELPKDSIQVGNFRRVVGKSIYDYVMVRSAGVNP DNQNAQYFT
TDSTGKEVITEDHADATTDGRAFLGKTAIPDFFGGFGTNIQYGNFSLNLQFSYQIGGYGLDYEYFGLLGI
DSEVTNVPDYNKTWTNNKTADLPRVDPLASDQY AISDLYLTS LTYLGLNNINIGYTFKNEELKKYNINS
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gc_cont=0.389

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WLPAAECGGDSRFVQDGKTYILGAAPTGGLDNNYLCTFDYTQIMAQDAGKKS DYFTVNYDKELGNGNTAY
AQVVASRQETFGRYAPPAAFINPY PAGLANVR **IPAQADGTPER**VVTNLNVPVQLRKRFIEIGPRASANTDW
TGNVVVGFTGEVMNDYTWDISMQWHIADYLTNDCCYLQKPEYSQAAQGFKDDGFYTVGGTKYYSLFDPKV
VAYYTSSPSVTSHSQFRSLEYTIGGPLKMVPD TDFVAGVQSAEYNYENIYDKQSEVGNVGGSSGNSSANS
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SNTTFSAEYHYDYV

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gc_cont=0.389

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PKLDGASANINLLPTAAVERVEILADGASAVYGSDAIGGVNVITKKGFDGMTISGSIGQPDLPGGEEEEK
FSIVGGVTGDDSSITWSYEHSQRDI IYLSDRDYTAGRAPTDNDFSSGFSLSYAWNYILNEDDPANGLVK
GQWLPAECAGDTRFVGDKTYILGAAPTGGLDNNYLCTFDYTQIMAENAGKKNDYFTVNYDKELNGTS
AYAQVVASRQETFGRYAPPAAFINPYAGLANVR **IPAQADGTPER**VVTINVPTQLRKRFIEIGPRASKNT
DWTGNVVVGFTGEVMNDYTWDISMQWHIADYLTNDCCYLQKPEYSEAAQAFKDTGTFKGQTSLFHPDVVA
YTTSSPSVTSHSQFRSLEYTIGGPLKMPD TDFVAGVQSAEYNYENIYDKQSEVGNVGGSSGNSSANSRD
YTALFLETKTSLLDGRGEVSLAVRNDDYSDFGTNTSWTVKGLYDVM DGLTLRASMGTFGRAPGLGLDASN
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>k141_1983866_1 # 1 # 1359 # 1 #

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gc_cont=0.387

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AQVVASRQETFGRYAPPAAFINPYAGLANVR **IPAQADGTPER**VVTNLNVPVQLRKRFIEIGPRASADTDW
TGNVVVGFTGEVMNDYTWDISMQWHIADYLTNDCCYLQKPEYTEAAQAFKDSGTFRGQTSLFHPDVVAYY
TSSPSVTSHSQFRSLEYTIGGPLKMVPD TDFVAGVQSAEYNYENIYDKQSEVGNVGGSSGNSSANSRDYT
ALFFESKTSLLDGAGELSVAVRSDDYSDFGKNTSWTVKGLYDVM DGLTLRASVGTGFRAPGLGLDLAANTT
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5-10bp;gc_cont=0.539

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PMVEVKSRRVGGATYQVPVEVRVERRNALAMRWLVEHSRKRGEKSMDLR **LAGEIFDASEGR**GSAVRKRED
VHRMAEANRAFSHYRF

>k141_1107324_5 # 3900 # 5630 # 1 #

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TRNGSADGTAKLGDSITVTFEASEGLMRPEVTIGGFAADVNGKIGDWTAVREMTELDMDGVVDFTITYTD
ISGVEGVAGTATTDESAYEYCAEGCPEPEPISLAGTWRLDAAGVGPTAGSREWFALNRSNADDVAARPCL
FDDAFVLGADGSFANQMGTDTTWVEGWQDTEAGEGACLT PVAPHDGSIAASYVYDEAAATLT LNQGGAHLG
LAKVVNGSELASPSEAPESVTTYTVLTFDGDFLSVVVVAGDGVYWSYDLVKDQPSALAGTWRL **LDAAGVGPS**
AGSREW FALNRSSADDVAARPCLFDDAFVIGADGSFTNQMGDTTWVEAWQDAEAGEGACLT PVAPHDGS I
AASSVYDEAAAGTLTLNGKGAHLGLAKVVNGSELASPSDAPDSVTTYTVSTFDGDFLSVVVVAGDGVYWSYD
LVKDQPSALAGTWRLDAAGVGPTAGSREWFALNRSSADDVAARPCLFDDAFVIGADGSFANQMGDATWVE
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>k141_2474684_1 # 2 # 295 # 1 #

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PDTGRGCETVAPGYDIDTTDGGMLVEGRAPAPTLVAGAPT PITIFDDEININWVAWDCCGGSTPGLVADD
AERGNVYEFVQNGNDGT VFGVITR **SAFLSSDPTSPSR**ATPHNALSMIDGGYITFDMKVM TAPTSPDSVW

KFKIEADEAAGGAWEADLTTFGDAPVVGQWTTYRIPLQDVADNGVDISLIDVLMVFPWMTGADAVFRLD
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>k141_2541674_1 # 2 # 280 # 1 #
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>k141_912643_1 # 3 # 281 # -1 #
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 ;gc_cont=0.448
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 PAFWMMPTDSVYGGWPKSGEIDIMEAVNLGAARADGTEEKSIYGTIHYGAGPGSDFSGNSYSPTTSPADS
 FNTYAIEWQEGEIRWYFNNVLYATQRQSKLRTTGDGTVLGLSHRGWYAELYDVATGQLGTDYSPAPFDQD
 FFMILNVAVGGQWPENVN EGGIDASAFAEGQTLEVDYVRVYKCSADPDTGRGCETVAPGYDIDVADGGML
 VEGRAPAPTLVAGAPTPITIFDDEININWVAWDCCGGSTPGLVADDAERGNVYEFVQNGNDGT VFGVIT
 R**SAFLSSDPTSPSR**ATPHNALSMIDGGYVTFDMKVM TAPTSPDSVWKFKIEADEAAGGAWEADLTTFGDA
 PVVGQWTTYRIPLQDVADNGVDISLIDVLMVFPWMTGADAVFRLDNIAILQDTAGVSYPEFPVSTNTDW
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 APAAGNEAWMLKVESAGATGATEVNLNTSSEGVNPSDVWQTFTFPIAELMDAGSIDPSALDVIMLFPWAG
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 GADAVFRLDNIAILQDTTGASYPEFPISSTNDWALWDCCGGSTPAIVTDAEKGQVVEFAVLNNGSGTVL
 GWNSRTTDGGTGISSNVTEIASNGVLSFDLKVMNAPAAGNDAWMLKVESAGATGATEVNLNTSSEGVNPS
 DAWQTFTFPIAELMDAGSIDPSAIDVIMLFPWAGSGADTVFRVSDVKFHVPGSGAAAPVAPLATFIDAGA
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>k141_2556990_1 # 3 # 380 # -1 #
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 YGTSVPNPVDANGNLVTS DKLWETNWADLLFNEAAIRTEHGLTASGGSDSSTYFFS

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 gc_cont=0.333
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 DVLI FRYLG YKTTQKVVGNSNTINVKLQEDANSLEE VVVVAYGSQT KESIVGSVAVVTNEVIEKQQLVSV
 TNALQGT VSGVNI ISSGGQPGNNPTIRIRGVGSINADASPLIILDGTPYNGNINSISADQIQSMNVLKDA

SSTALYGSRGANGVILINTKKGKINAPTRITLRSSSGIANQAVKQHELLNTDDQMIYSWEALKNSDVYVN
GISSAQAGENASNNLITSLGYNPYGTSVNPVDANGNLVTSCLKWETNWADLLFNEAAIRTEHGLTASGG
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GNVQIKFSDYLNFKTTLGFEKVLFDYGYVHNEFGYAANVAGRVSQTRNITTTTNLINALNFDKTFYDKH
SVSASLIQEAYKLKIEGLNAQGVGFLPNVKVLNGSTTPEDVGGFLSEERMESYLARFAYNFDTKYFIEGS
YRRDGSSRFSEETRFGDFYSVGGSWIISKENFLAGNSVLNLYLKLSGSYGELGNNRGIGYFPYLSLFETGY
NELTQTGVILGAVSDPLLSWEKTASLNTSLDFGMDNRISGSLAYFERESIDLINPKPLPGSTGNTSITT
NVGSIKNSGIEFELNTINIETDMFKWSTNLNITKTNEITELTQESFINGTKKWEVGKSLYEFFLREYAG
VDSSNGKALWFKDILDAEGEETGEKTTTVDYADATRYSTGKESLPDFQGGITNTFIYGDGFDLNLVLMNFSV
GAYVYDSTYAGLMGSFETLGSGSSVDISNRWQKPGDITNVPRLQNSQNDFNASSTRFLFKNDYLRKALT
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c_cont=0.357

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RGLGSSKLAISSVGGTVNIVTKTVDAKEGGVYKSMIGNDNFYKNSLYLSSGLNDNGWAYAMFLGHWSGDG
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RNFYHKPIYNLSWDWTINDNSSLSTVLYGSHGRGGFAYNEGKFYYTDQGMDYDKIIAENAAGNSEGIVK
ASVNGHNWYGAVSNYSSQINENLSFNLGFDFRFYNGIHFRTPDYGLSSYKGATKSYGYNPWDVDFDFP
KGSRDDYHISYDYEEDITYSGLFGQLEYSNENSSYYFQGAUSSQSHLKEDFMFDLGKAEVNTNTGYNLKV
GGSTSVGDYSKVYANFGFYSRQPFHDDLYANIRYSNNLNIGGAENQEITGIELGYVYEKDSFKAIIDLYS
TTWDNRILSSTEYDDDNVILSYSQSDPISQVHKGIEGQFFYKPSMDIMLKAYFSLGDWTYNSNVKSTTFN
EAGQTLSEGDVAYLDSVKVGDAQTTGGIEMMYIVNDRSRVDLSLNHYADLYARVNFSDDIFENAGNSGT
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TWTLGFKYKF

>k141_2370233_1 # 1 # 861 # 1 #

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c_cont=0.541

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PSYNVARNEISDAATIVRPANLRGLPDPNVILVNGKRRHRSGVIAELGGSLSGSGQADISAIPMAIK
QVEVLRDGAALYGSDAIAGVIGFQLNDSAEGMSLEVRTGESGEGDGGLTQVQGNIGLPLGDDGFLNITG
SWMEQDPTSRVQRTDAINLLTNGNAAQKASVASPYAQVWGAPEQIDNYNIFVNSGIEVSDSLEVYAFGN
YGSRETL

>k141_1171625_51 # 59948 # 60910 # 1 #

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r=5-10bp;gc_cont=0.548

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gc_cont=0.455

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PTTPTTPDNGGEPSEPTTPTTPEGPSDTASLAPLFTDSARTGWIVWDCCGGSTPAIVADTERGQVAEFTV
VASGETVQGFTTAAVGGSDALLDVSAFEMTGSLSFDLKVVSAPTTATAWMIKIESNGGVENGGTGEAVE
LNINTSNEGLDPVTGQWQTFTFDLIDLTLNAGLDITGIDVVLVSPAWTGGGAVYQIDNLQINKESSGTTV
TSDAVVMVPFDGSGAALDGTFTTVPASAVDWAGFANDNATIYPFNADGGTITFTAAIPEGGVDTSVRFR

FENAPYPDVNPAPFDAGTAIVNSSTATTYTITIPAQDAANNFSSLLMYVDTRDAPVTITDIVVTEGSATVT
PPATSDAVVMVPFDGSGATLDGTTFTVPASAVDWAGFANDNATIYPFTTFANGGTITFTAAPDGGVDTTV
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;gc_cont=0.448

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>k141_968151_1 # 2 # 2221 # 1 #

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GTPYGDDNSRVLFDMGADVGVVFI DDVTVTALSCELLSNGFEDGNTNWNGGEIAIDGENAYFTANVASA
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TTGTPYGDDNSRVLFDMGADVGEVSIDDVSLVPVEAFNQLVTNHDFSTDIEGWNGGTVIDADNSFFQAD
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>k141_526224_2 # 354 # 974 # -1 #

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>k141_1523862_1 # 1 # 279 # 1 #

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 >k141_1802724_1 # 3 # 281 # -1 #
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 >k141_1050647_1 # 3 # 608 # -1 #
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 IFWRLIGTLVMLVPGYLAEAGYMNITIGFVIGMLGWFIYILWEIFKGEAGKAAEANASPAVKYAYNAMRW
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 AL
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