### >DM\_train26

GLVPRGSHMMEILRGSPALSAFRINKLLARFQAANLQVHNIYAEYVHFADLNAPLNDSEQAQLTRLL QYGPALSSHTPAGKLLLVTPRPGTISPWSSKATDIAHNCGLQQVDRLERGVAYYIEASTLTAEQWRQV AAELHDRMMETVFSSLTDAEKLFIHHQPAPVSSVDLLGEGRQALIDANLRLGLALAEDEIDYLQEAFTK LGRNPNDIELYMFAQANSEHCRHKIFNADWIIDGKPQPKSLFKMIKNTFETTPDYVLSAYKDNAAVM EGSAVGRYFADHNTGRYDFHQEPAHILMKVETHNHPTAISPWPGAATGSGGEIRDEGATGRGAKPK AGLVGFSVSNLRIPGFEOPWEEDFGKPERIVTALDIMTEGPLGGAAFNNEFGRPALTGYFRTYEEKVNS HNGEELRGYHKPIMLAGGIGNIRADHVQKGEIVVGAKLIVLGGPAMNIGLGGGAASSMASGQSDAD LDFASVORDNPEMERRCOEVIDRCWOLGDANPILFIHDVGAGGLSNAMPELVSDGGRGGKFELRDI LSDEPGMSPLEIWCNESQERYVLAVAADQLPLFDELCKRERAPYAVIGDATEEQHLSLHDNHFDNQP IDLPLDVLLGKTPKMTRDVQTLKAKGDALNRADITIADAVKRVLHLPTVAEKTFLVTIGDRTVTGMVAR DOMVGPWQVPVADCAVTTASLDSYYGEAMSIGERAPVALLDFAASARLAVGEALTNIAATOIGDIKR IKLSANWMAAAGHPGEDAGLYDAVKAVGEELCPQLGLTIPVGKDSMSMKTRWQEGNEQREMTSPL SLVISAFARVEDVRHTLTPQLSTEDNALLLIDLGKGHNALGATALAQVYRQLGDKPADVRDVAQLKG FYDAMQALVAARKLLAWHDRSDGGLLVTLAEMAFAGHCGVQVDIAALGDDHLAALFNEELGGVIQ VRAEDRDAVEALLAQYGLADCVHYLGOALAGDRFVITANDQTVFSESRTTLRVWWAETTWQMQRL RDNPOCADOEHEAKANDTDPGLNVKLSFDINEDIAAPYIATGARPKVAVLREOGVNSHVEMAAAFH RAGFDAIDVHMSDLLGGRIGLGNFHALVACGGFSYGDVLGAGEGWAKSILFNHRVRDEFETFFHRPO TLALGVCNGCQMMSNLRELIPGSELWPRFVRNHSDRFEARFSLVEVTQSPSLLLQGMVGSQMPIAVS HGEGRVEVRDDAHLAALESKGLVALRYVDNFGKVTETYPANPNGSPNGITAVTTENGRVTIMMPHP ERVFRTVANSWHPENWGEDSPWMRIFRNARKQLG

### >DM train27

MANVWGVRLADSLSSPTIETRTRQYTLHDLCSDLDANPGREPWKPLRNQRTNNIVAVQLFRPLQGL VLDTQLYGFPGAFDDWERFMREKLRVLKYEVLRIYPISNYSNEHVNVFVANALVGAFLSNQAFYDLLP LLIINDTMIGDLLGTGASLSQFFQSHGDVLEVAAGRKYLQMENYSNDDDDDPPLFAKDLSDYAKAFYS DTYEVLDRFFWTHDSSAGVLVHYDKPTNGHHYLLGTLTOMVSAPPYIINATDAMLLESCLEOFSANV RARPAQPVTRLDQCYHLRWGAQYVGEDSLTYRLGVLSLLATNGYQLARPIPRQLTNRWLSSFVSQIM SDGVNETPLWPOERYVOIAYDSPSVVDGATOYGYVRKNOLRLGMRISALOSLSDTPSPVOWLPOYT IDQAAMDEGDLMVSRLTQLPLRPDYGNIWVGDALSYYVDYNRSHRVVLSSELPQLPDTYFDGDEQY GRSLFSLARKIGDRSLVKDTAVLKHAYQAIDPNTGKEYLRSRQSVAYFGASAGHSGADQPLVIEPWIQ GKISGVPPPSSVRQFGYDVARGAIVDLARPFPSGDYQFVYSDVDQVVDGHDDLSISSGLVESLLSSCM HATAPGGSFVVKINFPTRPVWHYIEQKILPNITSYMLIKPFVTNNVELFFVAFGVHQHSSLTWTSGVYF FLVDHFYRYETLSTISROLPSFGYVDDGSSVTGIETISIENPGFSNMTOAARIGISGLCANVGNARKSIAI YESHGARVLTITSRRSPASARRKSRLRYLPLIDPRSLEVQARTILPADPVLFENVSGASPHVCLTMMYNF EVSSAVYDGDVVLDLGTGPEAKILELIPATSPVTCVDIRPTAOPSGCWNVRTTFLELDYLSDGWITGVR GDIVTCMLSLGAAAAGKSMTFDAAFQQLIKVLSKSTANVVLVQVNCPTDVVRSIKGYLEIDSTNKRYR FPKFGRDEPYSDMDALEKICRTAWPNCSITWVPLSYDLRWTRLALLESTTLSSASIRIAELMYKYMPIM RIDIHGLPMEKRGNFIVGONCSLVIPGFNAODVFNCYFNSALAFSTEDVNAAMIPOVSAOFDATKGE WTLDMVFSDAGIYTMQALVGSNANPVSLGSFVVDSPDVDITDAWPAQLDFTIAGTDVDITVNPYYR LMTFVRIDGQWQIANPDKFQFFSSASGTLVMNVKLDIADKYLLYYIRDVQSRDVGFYIQHPLQLLNTI TLPTNEDLFLSAPDMREWAVKESGNTICILNSQGFVLPQDWDVLTDTISWSPSIPTYIVPPGDYTLTPL 00000000000000

# >DM\_train29

MSSMILTQFGPFIESISGITDQSNDVFEDAAKAFSMFTRSDVYKALDEIPFSDDAMLPIPPTIYTKPSHDS
YYYIDALNRVRRKTYQGPDDVYVPNCSIVELLEPHETLTSYGRLSEAIENRAKDGDSQARIATTYGRIAE
SQARQIKAPLEKFVLALLVAEAGGSLYDPVLQKYDEIPDLSHNCPLWCFREICRHISGPLPDRAPYLYLS
AGVFWLMSPRMTSAIPPLLSDLVNLAILQQTAGLDPSLVKLGVQICLHAAASSSYSWFILKTKSIFPQN
TLHSMYESLEGGYCPNLEWLEPRSDYKFMYMGVMPLSAKYARSAPSNDKKARELGEKYGLSSVVGEL
RKRTKTYVKHDFASVRYIRDAMACTSGIFLVRTPTETVLQEYTQSPEIKVPIPQKDWTGPIGEIRILKDTT
SSIARYLYRTWYLAAARMAAQPRTWDPLFQAIMRSQYVTARGGSGAALRESLYAINVSLPDFKGLPV
KAATKIFQAAQLANLPFSHTSVAILADTSMGLRNQVQRRPRSIMPLNVPQQQVSAPHTLTADYINYH
MNLSPTSGSAVIEKVIPLGVYASSPPNQSINIDISACDASITWDFFLSVIMAAIHEGVASSSIGKPFMGV
PASIVNDESVVGVRAARPISGMQNMIQHLSKLYKRGFSYRVNDSFSPGNDFTHMTTTFPSGSTATSTE

HTANNSTMMETFLTVWGPEHTDDPDVLRLMKSLTIQRNYVCQGDDGLMIIDGTTAGKVNSETIQN DLELISKYGEEFGWKYDIAYDGTAEYLKLYFIFGCRIPNLSRHPIVGKERANSSAEEPWPAILDQIMGVFF NGVHDGLQWQRWIRYSWALCCAFSRQRTMIGESVGYLQYPMWSFVYWGLPLVKAFGSDPWIFSW YMPTGDLGMYSWISLIRPLMTRWMVANGYVTDRCSTVFGNADYRRCFNELKLYQGYYMAQLPRNP KKSGRAASREVREQFTQALSDYLMQNPELKSRVLRGRSEWEKYGAGIIHNPPSLFDVPHKWYQGAQ EAAIATREELAEMDETLMRARRHSYSSFSKLLEAYLLVKWRMCEAREPSVDLRLPLCAGIDPLNSDPFL KMVSVGPMLQSTRKYFAQTLFMAKTVSGLDVNAIDSALLRLRTLGADKKALTAQLLMVGLQESEADA LAGKIMLQDVNTVQLARVVNLAVPDTWMSLDFDSMFKHHVKLLPKDGRHLNTDIPPRMGWLRAIL RFLGAGMVMTATGVAVDIYLEDIHGGGRSLGORFMTWMROEGRSA

ESTVTEELKEGIDAVYPSLVGTADSKAEGIKNYFKLSFTLPEEOKSRTVGSEAPLKDVAOALSSRARYELF TEKETANPAFNGEVIKRYKELMEHGEGIADILRSRLAKFLNTKDVGKRFAQGTEANRWVGGKLLNIVE QDGDTFKYNEQLLQTAVLAGLQWRLTATSNTAIKDAKDVAAITGIDQALLPEGLVEQFDTGMTLTEA VSSLAQKIESYWGLSRNPNAPLGYTKGIPTAMAAEILAAFVESTDVVENIVDMSEIDPDNKKTIGLYTIT ELDSFDPINSFPTAIEEAVLVNPTEKMFFGDDIPPVANTQLRNPAVRNTPEQKAALKAEQATEFYVHTP MVQFYETLGKDRILELMGAGTLNKELLNDNHAKSLEGKNRSVEDSYNQLFSVIEQVRAQSEDISTVPI HYAYNMTRVGRMQMLGKYNPQSAKLVREAILPTKATLDLSNQNNEDFSAFQLGLAQALDIKVHTM TREVMSDELTKLLEGNLKPAIDMMVEFNTTGSLPENAVDVLNTALGDRKSFVALMALMEYSRYLVAE DKSAFVTPLYVEADGVTNGPINAMMLMTGGLFTPDWIRNIAKGGLFIGSPNKTMNEHRSTADNNDL YOASTNALMESLGKLRSNYASNMPIOSOIDSLLSLMDLFLPDINLGENGALELKRGIAKNPLTITIYGSG ARGIAGKLVSSVTDAIYERMSDVLKARAKDPNISAAMAMFGKQAASEAHAEELLARFLKDMETLTSTV PVKRKGVLELQSTGTGAKGKINPKTYTIKGEQLKALQENMLHFFVEPLRNGITQTVGESLVYSTEQLQK ATQIQSVVLEDMFKQRVQEKLAEKAKDPTWKKGDFLTQKELNDIQASLNNLAPMIETGSQTFYIAGSE NAEVANQVLATNLDDRMRVPMSIYAPAQAGVAGIPFMTIGTGDGMMMQTLSTMKGAPKNTLKIF DGMNIGLNDITDASRKANEAVYTSWOGNPIKNVYESYAKFMKNVDFSKLSPEALEAIGKSALEYDOR ENATVDDIANAASLIERNLRNIALGVDIRHKVLDKVNLSIDOMAAVGAPYONNGKIDLSNMTPEOO **ADELNKLFREELEARKOKVAKA** 

### >DM train33

MPNFFIDRPIFAWVIAIIIMLAGGLAILKLPVAQYPTIAPPAVTISASYPGADAKTVQDTVTQVIEQNMN GIDNLMYMSSNSDSTGTVOITLTFESGTDADIAOVOVONKLOLAMPLLPOEVOQOGVSVEKSSSSF LMVVGVINTDGTMTQEDISDYVAANMKDAISRTSGVGDVQLFGSQYAMRIWMNPNELNKFQLTPV DVITAIKAQNAQVAAGQLGGTPPVKGQQLNASIIAQTRLTSTEEFGKILLKVNQDGSRVLLRDVAKIEL GGENYDIIAEFNGOPASGLGIKLATGANALDTAAAIRAELAKMEPFFPSGLKIVYPYDTTPFVKISIHEVV KTLVEAIILVFLVMYLFLONFRATLIPTIAVPVVLLGTFAVLAAFGFSINTLTMFGMVLAIGLLVDDAIVVV ENVERVMAEEGLPPKEATRKSMGQIQGALVGIAMVLSAVFVPMAFFGGSTGAIYRQFSITIVSAMALS VLVALILTPALCATMLKPIAKGDHGEGKKGFFGWFNRMFEKSTHHYTDSVGGILRSTGRYLVLYLIIVVG MAYLFVRLPSSFLPDEDQGVFMTMVQLPAGATQERTQKVLNEVTHYYLTKEKNNVESVFAVNGFGF AGRGQNTGIAFVSLKDWADRPGEENKVEAITMRATRAFSQIKDAMVFAFNLPAIVELGTATGFDFELI DQAGLGHEKLTQARNQLLAEAAKHPDMLTSVRPNGLEDTPQFKIDIDQEKAQALGVSINDINTTLGA AWGGSYVNDFIDRGRVKKVYVMSEAKYRMLPDDIGDWYVRAADGOMVPFSAFSSSRWEYGSPRLE RYNGLPSMEILGQAAPGKSTGEAMELMEQLASKLPTGVGYDWTGMSYQERLSGNQAPSLYAISLIVV FLCLAALYESWSIPFSVMLVVPLGVIGALLAATFRGLTNDVYFQVGLLTTIGLSAKNAILIVEFAKDLMDK EGKGLIEATLDAVRMRLRPILMTSLAFILGVMPLVISTGAGSGAQNAVGTGVMGGMVTATVLAIFFVP VFFVVVRRRFSRKNEDIEHSHTVDHHHHHH

### >DM\_train34

DDPIRPPLKVARSPRPGOCODVVODVPNVDVOMLELYDRMSFKDIDGGVWKOGWNIKYDPLKYN AHHKLKVFVVPHSHNDPGWIQTFEEYYQHDTKHILSNALRHLHDNPEMKFIWAEISYFARFYHDLGE NKKLOMKSIVKNGOLEFVTGGWVMPDEANSHWRNVLLOLTEGOTWLKOFMNVTPTASWAIAPFG HSPTMPYILQKSGFKNMLIQRTHYSVKKELAQQRQLEFLWRQIWDNKGDTALFTHMMPFYSYDIPH TCGPDPKVCCOFDFKRMGSFGLSCPWKVPPRTISDONVAARSDLLVDOWKKKAELYRTNVLLIPLGD DFRFKQNTEWDVQRVNYERLFEHINSQAHFNVQAQFGTLQEYFDAVHQAERAGQAEFPTLSGDFF TYADRSDNYWSGYYTSRPYHKRMDRVLMHYVRAAEMLSAWHSWDGMARIEERLEQARRELSLFQ HHDGITGTAKTHVVVDYEQRMQEALKACQMVMQQSVYRLLTKPSIYSPDFSFSYFTLDDSRWPGSG VEDSRTTIILGEDILPSKHVVMHNTLPHWREQLVDFYVSSPFVSVTDLANNPVEAQVSPVWSWHHDT LTKTIHPOGSTTKYRIIFKARVPPMGLATYVLTISDSKPEHTSYASNLLLRKNPTSLPLGQYPEDVKFGDP REISLRVGNGPTLAFSEQGLLKSIQLTQDSPHVPVHFKFLKYGVRSHGDRSGAYLFLPNGPASPVELGQ PVVLVTKGKLESSVSVGLPSVVHQTIMRGGAPEIRNLVDIGSLDNTEIVMRLETHIDSGDIFYTDLNGLQ FIKRRRLDKLPLQANYYPIPSGMFIEDANTRLTLLTGQPLGGSSLASGELEIMQDRRLASDDERGLGQG VLDNKPVLHIYRLVLEKVNNCVRPSKLHPAGYLTSAAHKASQSLLDPLDKFIFAENEWIGAQGQFGGD HPSAREDLDVSVMRRLTKSSAKTQRVGYVLHRTNLMQCGTPEEHTQKLDVCHLLPNVARCERTTLTF LONLEHLDGMVAPEVCPMETAAYVSSHSS

### >DM\_train35

ALVRDDVDYQIFRDFAENKGRFSVGATNVEVRDKNNHSLGNVLPNGIPMIDFSVVDVDKRIATLINP QYVVGVKHVSNGVSELHFGNLNGNMNNGNAKSHRDVSSEENRYFSVEKNEYPTKLNGKAVTTEDQ TQKRREDYYMPRLDKFVTEVAPIEASTASSDAGTYNDQNKYPAFVRLGSGSQFIYKKGDNYSLILNNH EVGGNNLKLVGDAYTYGIAGTPYKVNHENNGLIGFGNSKEEHSDPKGILSQDPLTNYAVLGDSGSPLF VYDREKGKWLFLGSYDFWAGYNKKSWQEWNIYKPEFAKTVLDKDTAGSLTGSNTQYNWNPTGKTS VISNGSESLNVDLFDSSQDTDSKKNNHGKSVTLRGSGTLTLNNNIDQGAGGLFFEGDYEVKGTSDST TWKGAGVSVADGKTVTWKVHNPKSDRLAKIGKGTLIVEGKGENKGSLKVGDGTVILKQQADANNKV KAFSQVGIVSGRSTVVLNDDKQVDPNSIYFGFRGGRLDANGNNLTFEHIRNIDDGARLVNHNTSKTS TVTITGESLITDPNTITPYNIDAPDEDNPYAFRRIKDGGOLYLNLENYTYYALRKGASTRSELPKNSGES

NENWLYMGKTSDEAKRNVMNHINNERMNGFNGYFGEEEGKNNGNLNVTFKGKSEQNRFLLTGGT NLNGDLKVEKGTLFLSGRPTPHARDIAGISSTKKDOHFAENNEVVVEDDWINRNFKATNINVTNNAT LYSGRNVANITSNITASDNAKVHIGYKAGDTVCVRSDYTGYVTCTTDKLSDKALNSFNATNVSGNVN LSGNANFVLGKANLFGTISGTGNSQVRLTENSHWHLTGDSNVNQLNLDKGHIHLNAQNDANKVTT YNTLTVNSLSGNGSFYYLTDLSNKQGDKVVVTKSATGNFTLQVADKTGEPTKNELTLFDASNATRNN LNVSLVGNTVDLGAWKYKLRNVNGRYDLYNPEVEKRNQTVDTTNITTPHHHHHHHVP 11111111111111

### >DM train39

MSDLETVAKFLAESVIASTAKTSERNLRQLETQDGFGLTLLHVIASTNLPLSTRLAGALFFKNFIKRKWV DENGNHLLPANNVELIKKEIVPLMISLPNNLQVQIGEAISSIADSDFPDRWPTLLSDLASRLSNDDMVT NKGVLTVAHSIFKRWRPLFRSDELFLEIKLVLDVFTAPFLNLLKTVDEQITANENNKASLNILFDVLLVLIK LYYDFNCQDIPEFFEDNIQVGMGIFHKYLSYSNPLLEDPDETEHASVLIKVKSSIQELVQLYTTRYEDVF GPMINEFIQITWNLLTSISNQPKYDILVSKSLSFLTAVTRIPKYFEIFNNESAMNNITEQIILPNVTLREEDV ELFEDDPIEYIRRDLEGSDTDTRRRACTDFLKELKEKNEVLVTNIFLAHMKGFVDQYMSDPSKNWKFKD LYIYLFTALAINGNITNAGVSSTNNLLNVVDFFTKEIAPDLTSNNIPHIILRVDAIKYIYTFRNQLTKAQLIE LMPILATFLQTDEYVVYTYAAITIEKILTIRESNTSPAFIFHKEDISNSTEILLKNLIALILKHGSSPEKLAENEF LMRSIFRVLQTSEDSIQPLFPQLLAQFIEIVTIMAKNPSNPRFTHYTFESIGAILNYTQRQNLPLLVDSM MPTFLTVFSEDIQEFIPYVFQIIAFVVEQSATIPESIKPLAQPLLAPNVWELKGNIPAVTRLLKSFIKTDSSIF PDLVPVLGIFQRLIASKAYEVHGFDLLEHIMLLIDMNRLRPYIKQIAVLLLQRLQNSKTERYVKKLTVFFG LISNKLGSDFLIHFIDEVQDGLFQQIWGNFIITTLPTIGNLLDRKIALIGVLNMVINGQFFQSKYPTLISST MNSIIETASSQSIANLKNDYVDLDNLEEISTFGSHFSKLVSISEKPFDPLPEIDVNNGVRLYVAEALNKYN AISGNTFLNTILPQLTQENQVKLNQLLVGN

### >DM train40

ATPSMMPQWSYMHISGQDASEYLSPGLVQFARATETYFSLNNKFRNPTVAPTHDVTTDRSQRLTLR FIPVDREDTAYSYKARFTLAVGDNRVLDMASTYFDIRGVLDRGPTFKPYSGTAYNALAPKGAPNPCE WDEAATALEINLEEEDDDNEDEVDEQAEQQKTHVFGQAPYSGINITKEGIQIGVEGQTPKYADKTFQ PEPQIGESQWYETEINHAAGRVLKKTTPMKPCYGSYAKPTNENGGQGILVKQQNGKLESQVEMQFF STTEATAGNGDNLTPKVVLYSEDVDIETPDTHISYMPTIKEGNSRELMGQQSMPNRPNYIAFRDNFIG LMYYNSTGNMGVLAGQASQLNAVVDLQDRNTELSYQLLLDSIGDRTRYFSMWNQAVDSYDPDVRI IENHGTEDELPNYCFPLGGVINTETLTKVKPKTGQENGWEKDATEFSDKNEIRVGNNFAMEINLNANL WRNFLYSNIALYLPDKLKYSPSNVKISDNPNTYDYMNKRVVAPGLVDCYINLGARWSLDYMDNVNP FNHHRNAGLRYRSMLLGNGRYVPFHIQVPQKFFAIKNLLLLPGSYTYEWNFRKDVNMVLQSSLGND LRVDGASIKFDSICLYATFFPMAHNTASTLEAMLRNDTNDQSFNDYLSAANMLYPIPANATNVPISIP SRNWAAFRGWAFTRLKTKETPSLGSGYDPYYTYSGSIPYLDGTFYLNHTFKKVAITFDSSVSWPGNDR LLTPNEFEIKRSVDGEGYNVAQCNMTKDWFLVQMLANYNIGYQGFYIPESYKDRMYSFFRNFQPMS RQVVDDTKYKDYQQVGILHQHNNSGFVGYLAPTMREGQAYPANFPYPLIGKTAVDSITQKKFLCDR TLWRIPFSSNFMSMGALTDLGQNLLYANSAHALDMTFEVDPMDEPTLLYVLFEVFDVVRVHRPHRG VIETVYLRTPFSAGNATT

# >DM\_train43

MVAKKWYYFGGGNADGNKNMKELLGGKGANLAEMVNLGIPVPPGFTITTEACKTYQETETIPQEV ADQVRENVSRVEKEMGAKFGDPANPLLFSVRSGAAASMPGMMDTVLNLGLNKVTVDAWVRRAPR LERFVYDSYRRFITMYADIVMQVGREDFEEALSRMKERRGTKFDTDLTASDLKELCDGYLELFELKTGC SFPQDPVMQLFAAIKAVFRSWGNPRATIYRRMNNITGLLGTAVNVQAMVFGNINDRSATGVAFSRS PSTGENFFFGEYLVNAQGEDVVAGIRTPQQINHSLSLRWAKAHGVGEEERRKRYPSMEEAMPENYRL LCDVRKRLENHYRDMQDLEFTVQDGRLWLLQCRNGKRTIHAAVRIAIDMVNEGLISREEAVLRIDPY QVDHLMHPNLEPGAEKANKPIGRGLAASPGAAVGQVVFDAESAKEWSGRGKKVIMVRLETSPEDLA GMDAACGILTARGGMTSHAAVVARGMGKCCVSGCGDMVIRGKSFKLNGSVFREGDYITIDGSKGLI YAGKLKLRSPDLKGSFQTILQWCQEMKRLGVRTNADTPADAAKARSFGAEGVGLCRTEHMFFEGSRI NFIREMILADSASGRKAALDKLLPIQRADFVGILRAMRGLPVTIRLLDPPLHEFVPHDAAAQFELAQKL

GMPAEKVRNRVNALHELNPMLGHRGCRLGITYPEIYNMQVRAIIEAAIAVSEEGSSVIPEIMVPLVGKK EELSLIREEVVKTAEAVITKSGKRVHYTVGTMIEVPRAAVTADSIAQKADFFSFGTNDLTQMGCGFSRD DAGPFLRHYGNLGIYAQDPFQSIDQEGIGELVRIAVTKGRRVKPMLKMGICGEHGGDPATIGFCHKV GLDYVSCSPFRVPVAIVAAAHASIKDRRAAMKARKGFAAKL

## >DM\_train45

MVIASVEDGGDGDTSKDDWLWYKQPASQTDATATAGGNYGNPDNNRWQQTTLPFGNGKIGGTV WGEVSRERVTFNEETLWTGGPGSSTSYNGGNNETKGQNGATLRALNKQLANGAETVNPGNLTGGE NAAEQGNYLNWGDIYLDYGFNDTTVTEYRRDLNLSKGKADVTFKHDGVTYTREYFASNPDNVMVA RLTASKAGKLNFNVSMPTNTNYSKTGETTTVKGDTLTVKGALGNNGLLYNSQIKVVLDNGEGTLSEG SDGASLKVSDAKAVTLYIAAATDYKQKYPSYRTGETAAEVNTRVAKVVQDAANKGYTAVKKAHIDDH SAIYDRVKIDLGQSGHSSDGAVATDALLKAYQRGSATTAQKRELETLVYKYGRYLTIGSSRENSQLPSN LQGIWSVTAGDNAHGNTPWGSDFHMNVNLQMNYWPTYSANMGELAEPLIEYVEGLVKPGRVTAK VYAGAETTNPETTPIGEGEGYMAHTENTAYGWTAPGQSFSWGWSPAAVPWILQNVYEAYEYSGDP ALLDRVYALLKEESHFYVNYMLHKAGSSSGDRLTTGVAYSPEQGPLGTDGNTYESSLVWQMLNDAIE AAKAKGDPDGLVGNTTDCSADNWAKNDSGNFTDANANRSWSCAKSLLKPIEVGDSGQIKEWYFEG ALGKKKDGSTISGYQADNQHRHMSHLLGLFPGDLITIDNSEYMDAAKTSLRYRCFKGNVLQSNTGW AIGQRINSWARTGDGNTTYQLVELQLKNAMYANLFDYHAPFQIDGNFGNTSGVDEMLLQSNSTFT DTAGKKYVNYTNILPALPDAWAGGSVSGLVARGNFTVGTTWKNGKATEVRLTSNKGKQAAVKITAG GAQNYEVKNGDTAVNAKVVTNADGASLLVFDTTAGTTYTITKKAS

### >DM train47

MTOOPOAKYRHDYRAPDYOITDIDLTFDLDAOKTVVTAVSOAVRHGASDAPLRLNGEDLKLVSVHI NDEPWTAWKEEEGALVISNLPERFTLKIINEISPAANTALEGLYQSGDALCTQCEAEGFRHITYYLDRPD VLARFTTKIIADKIKYPFLLSNGNRVAQGELENGRHWVQWQDPFPKPCYLFALVAGDFDVLRDTFTTR SGREVALELYVDRGNLDRAPWAMTSLKNSMKWDEERFGLEYDLDIYMIVAVDFFNMGAMENKGLN IFNSKYVLARTDTATDKDYLDIERVIGHEYFHNWTGNRVTCRDWFQLSLKEGLTVFRDQEFSSDLGSR AVNRINNVRTMRGLOFAEDASPMAHPIRPDMVIEMNNFYTLTVYEKGAEVIRMIHTLLGEENFOKG MQLYFERHDGSAATCDDFVQAMEDASNVDLSHFRRWYSQSGTPIVTVKDDYNPETEQYTLTISQRT PATPDOAEKOPLHIPFAIELYDNEGKVIPLOKGGHPVNSVLNVTOAEOTFVFDNVYFOPVPALLCEFS APVKLEYKWSDQQLTFLMRHARNDFSRWDAAQSLLATYIKLNVARHQQGQPLSLPVHVADAFRAV LLDEKIDPALAAEILTLPSVNEMAELFDIIDPIAIAEVREALTRTLATELADELLAIYNANYOSEYRVEHEDI AKRTLRNACLRFLAFGETHLADVLVSKOFHEANNMTDALAALSAAVAAQLPCRDALMQEYDDKWH **QNGLVMDKWFILQATSPAANVLETVRGLLQHRSFTMSNPNRIRSLIGAFAGSNPAAFHAEDGSGYLF** LVEMLTDLNSRNPQVASRLIEPLIRLKRYDAKRQEKMRAALEQLKGLENLSGDLYEKITKALA 

#### >DM\_train48

SAECPVVNELERINCIPDOPPTKATCDORGCCWNPOGAVSVPWCYYSKNHSYHVEGNLVNTNAGF TARLKNLPSSPVFGSNVDNVLLTAEYQTSNRFHFKLTDQTNNRFEVPHEHVQSFSGNAAASLTYQVEI SROPFSIKVTRRSNNRVLFDSSIGPLLFADQFLQLSTRLPSTNVYGLGEHVHQQYRHDMNWKTWPIF NRDTTPNGNGTNLYGAQTFFLCLEDASGLSFGVFLMNSNAMEVVLQPAPAITYRTIGGILDFYVFLGN TPEQVVQEYLELIGRPALPSYWALGFHLSRYEYGTLDNMREVVERNRAAQLPYDVQHADIDYMDER RDFTYDSVDFKGFPEFVNELHNNGOKLVIIVDPAISNNSSSSKPYGPYDRGSDMKIWVNSSDGVTPLI GEVWPGQTVFPDYTNPNCAVWWTKEFELFHNQVEFDGIWIDMNEVSNFVDGSVSGCSTNNLNNP PFTPRILDGYLFCKTLCMDAVQHWGKQYDIHNLYGYSMAVATAEAAKTVFPNKRSFILTRSTFAGSGK FAAHWLGDNTATWDDLRWSIPGVLEFNLFGIPMVGPDICGFALDTPEELCRRWMQLGAFYPFSRNH NGOGYKDODPASFGADSLLLNSSRHYLNIRYTLLPYLYTLFFRAHSRGDTVARPLLHEFYEDNSTWDV HOOFLWGPGLLITPVLDEGAEKVMAYVPDAVWYDYETGSOVRWRKOKVEMELPGDKIGLHLRGGYI FPTQQPNTTTLASRKNPLGLIIALDENKEAKGELFWDDGETKDTVANKVYLLCEFSVTQNRLEVNISQS TYKDPNNLAFNEIKILGTEEPSNVTVKHNGVPSQTSPTVTYDSNLKVAIITDIDLLLGEAYTVEW 

### >DM train50

MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRHLHFTLVKDRNVATTRDYYFALAHTVRDHLVGR WIRTQQHYYDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLGNG GLGRLAACFLDSMATLGLAAYGYGIRYEYGIFNQKIRDGWQVEEADDWLRYGNPWEKSRPEFMLPV HFYGKVEHTNTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQ AVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKASKFGSTRGAGTVFDAFPDQV AIQLNDTHPALAIPELMRIFVDIEKLPWSKAWELTQKTFAYTNHTVLPEALERWPVDLVEKLLPRHLEIIY EINQKHLDRIVALFPKDVDRLRRMSLIEEEGSKRINMAHLCIVGSHAVNGVAKIHSDIVKTKVFKDFSEL EPDKFQNKTNGITPRRWLLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSFLGDDVFLRELAKVKQENKL KFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPKKLFVPRTVIIGGKAAPGY HMAKMIIKLITSVADVVNNDPMVGSKLKVIFLENYRVSLAEKVIPATDLSEQISTAGTEASGTGNMKFM LNGALTIGTMDGANVEMAEEAGEENLFIFGMRIDDVAALDKKGYEAKEYYEALPELKLVIDQIDNGFFS PKQPDLFKDIINMLFYHDRFKVFADYEAYVKCQDKVSQLYMNPKAWNTMVLKNIAASGKFSSDRTIK EYAQNIWNVEPSDLKISLSNESNKVNGN

### >DM\_train51

MFSAGHKIKGTVVLMPKNELEVNPDGSAVDNLNAFLGRSVSLQLISATKADAHGKGKVGKDTFLEGI NTSLPTLGAGESAFNIHFEWDGSMGIPGAFYIKNYMQVEFFLKSLTLEAISNQGTIRFVCNSWVYNTKL YKSVRIFFANHTYVPSETPAPLVSYREEELKSLRGNGTGERKEYDRIYDYDVYNDLGNPDKSEKLARPVL GGSSTFPYPRRGRTGRGPTVTDPNTEKQGEVFYVPRDENLGHLKSKDALEIGTKSLSQIVQPAFESAFD LKSTPIEFHSFQDVHDLYEGGIKLPRDVISTIIPLPVIKELYRTDGQHILKFPQPHVVQVSQSAWMTDEEF AREMIAGVNPCVIRGLEEFPPKSNLDPAIYGDQSSKITADSLDLDGYTMDEALGSRRLFMLDYHDIFM PYVRQINQLNSAKTYATRTILFLREDGTLKPVAIELSLPHSAGDLSAAVSQVVLPAKEGVESTIWLLAKA YVIVNDSCYHQLMSHWLNTHAAMEPFVIATHRHLSVLHPIYKLLTPHYRNNMNINALARQSLINAN GIIETTFLPSKYSVEMSSAVYKNWVFTDQALPADLIKRGVAIKDPSTPHGVRLLIEDYPYAADGLEIWAA

IKTWVQEYVPLYYARDDDVKNDSELQHWWKEAVEKGHGDLKDKPWWPKLQTLEDLVEVCLIIIWIA SALHAAVNFGNYPYGGLIMNRPTASRRLLPEKGTPEYEEMINNHEKAYLRTITSKLPTLISLSVIEILSTHA SDEVYLGQRDNPHWTSDSKALQAFQKFGNKLKEIEEKLVRRNNDPSLQGNRLGPVQLPYTLLYPSSE EGLTFRGIPNSISI

### >DM train52

GCPNDRITLPPANAQRTNMTCHFCIVGCGYHVYKWPELEEGGRAPEQNALGLDFRKQLPPLASTLTP AMTNVVTEHDGARYDIMVVPDKACVVNSGLSSTRGGKMASYMYTPTGDGKERLSAPRLYAADEWV DTTWDHAMALYAGLIKKTLDSDGPQGVFFSCFDHGGAGGGFENTWGTGKLMFSAIQTPMVRIHNR PAYNSECHATREMGIGELNNAYEDAQLADVIWSIGNNPYESQTNYFLNHWLPNLQGATTSKKKERF PNENFPQARIIFVDPRETPSVAIARHVAGNDRVLHLAIEPGTDTALFNGLFTYVVEQGWIDKPFIEAHT KGFDDAVKTNRLSLDECSNITGVPVDMLKRAAEWSYKPKASGQAPRTMHAYEKGIIWGNDNYVIQS ALLDLVIATHNVGRRGTGCVRMGGHQEGYTRPPYPGDKKIYIDQELIKGKGRIMTWWGCNNFQTSN NAQALREAILQRSAIVKQAMQKARGATTEEMVDVIYEATQNGGLFVTSINLYPTKLAEAAHLMLPAA HPGEMNLTSMNGERRIRLSEKFMDPPGTAMADCLIAARIANALRDMYQKDGKAEMAAQFEGFDW KTEEDAFNDGFRRAGQPGAPAIDSQGGSTGHLVTYDRLRKSGNNGVQLPVVSWDESKGLVGTEML YTEGKFDTDDGKAHFKPAPWNGLPATVQQQKDKYRFWLNNGRNNEVWQTAYHDQYNSLMQER YPMAYIEMNPDDCKQLDVTGGDIVEVYNDFGSTFAMVYPVAEIKRGQTFMLFGYVNGIQGDVTTD WTDRDIIPYYKGTWGDIRKVGSMSEFKRTVSFKSRRFG

SEHPQPVTTQIEKSVNTALNKNYVFNKADYQYTLTNPSLGKIVGGILYPNATGSTTVKISDKSGKIIKEV PLSVTASTEDNFTKLLDKWNDVTIGNYVYDTNDSNMOKLNOKLDETNAKNIEAIKLDSNRTFLWKDL

DNLNNSAQLTATYRRLEDLAKQITNPHSTIYKNEKAIRTVKESLAWLHQNFYNVNKDIEGSANWWDF EIGVPRSITGTLSLMNNYFTDAEIKTYTDPIEHFVPDAEYFRKTLVNPFKALGGNLVDMGRVKIIEGLLRK DNTIIEKTSHSLKNLFTTATKAEGFYADGSYIDHTNVAYTGAYGNVLIDGLTQLLPIIQETDYKISNQELD MVYKWINQSFLPLIVKGELMDMSRGRSISREAASSHAAAVEVLRGFLRLANMSNEERNLDLKSTIKTIIT SNKFYNVFNNLKSYSDIANMNKLLNDSTVATKPLKSNLSTFNSMDRLAYYNAKKDFGFALSLHSKRTL NYEGMNDENTRGWYTGDGMFYIYNSDQSHYSNHFWPTVNPYKMAGTTEKDAKREDTTKEFMSKH SKDAKEKTGOVTGTSDFVGSVKLNDHFALAAMDFTNWDRTLTAQKGWVILNDKIVFLGSNIKNTNGI GNVSTTIDQRKDDSKTPYTTYVNGKTIDLKQASSQQFTDTKSVFLESKEPGRNIGYIFFKNSTIDIERKEQ TGTWNSINRTSKNTSIVSNPFITISOKHDNKGDSYGYMMVPNIDRTSFDKLANSKEVELLENSSKOOV IYDKNSQTWAVIKHDNQESLINNQFKMNKAGLYLVQKVGNDYQNVYYQPQTMTKTDQLAI >DM train56

MKYGYFDNDNREYVITRPDVPAPWTNYLGTEKFCTVISHNAGGYSFYNSPEYNRVTKFRPNATFDRP GHYVYLRDDDSGDYWSISWQPVAKSLDEAQYQIRHGLSYSKFQCDYNGIHARKTLFVPKGEDAEIW DVVIKNTSDQVRTISAFSFVEFSFSHIQSDNQNHQMSLYSAGTAYRPGLIEYDLYYNTDDFEGFYYLAS TFDPDSYDGQRDRFLGLYRDEANPLAVEQGRCSNSAQTCYNHCGSLHKQFTLQPGEEIRFAYILGIGK GNGERLREHYQDVANIDAAFAAIKAHWDERCAKFQVKSPNQGLDTMINAWTLYQAETCVVWSRFA SFIEVGGRTGLGYRDTAQDAISVPHANPEMTRKRIVDLLRGQVKAGYGLHLFDPDWFDPEKEDVAPS KSPTVVPTPSDEDKIHGIKDTCSDDHLWLIPTICKYVMETGETSFFDQMIPYADGGEASVYEHMKAAL DFSAEYVGQTGICKGLRADWNDCLNLGGGESSMVSFLHFWALQEFIDLAKFLGKDQDVNTYTEMAA NVREACETHLWDDEGGWYIRGLTKNGDKIGTAQQQEGRVHLESNTLAVLSGLASQERGEQAMDAV DEHLFSPYGLHLNAPSFSTPNDDIGFVTRVYQGVKENGAIFSHPNPWAWVAETKLGRGDRAMKFYD ALNPYNQNDIIEKRIAEPYSYVQFIMGRDHQDHGRANHPWLTGTSGWAYFAVTNYILGVQSGFTGL SVDPCIPSDWPGFEVTRQWRGATYHIQVENPDHVSKGVKSITLNGAPIQGRIPPQAQGSDNQVVVV LG

>DM\_train58

MRVPFSWLKAYVPELESPEVLEERLAGLGFETDRIERVFPIPRGVVFARVLEAHPIPGTRLKRLVLDAGRT VEVVSGAENARKGIGVALALPGTELPGLGQKVGERVIQGVRSFGMALSPRELGVGEYGGGLLEFPEDA LPPGTPLSEAWPEEVVLDLEVTPNRPDALGLLGLARDLHALGYALVEPEAALKAEALPLPFALKVEDPE GAPHFTLGYAFGLRVAPSPLWMQRALFAAGMRPINNVVDVTNYVMLERAQPMHAFDLRFVGEGIA VRRAREGERLKTLDGVERTLHPEDLVIAGWRGEESFPLGLAGVMGGAESEVREDTEAIALEVACFDPV SIRKTARRHGLRTEASHRFERGVDPLGQVPAQRRALSLLQALAGARVAEALLEAGSPKPPEAIPFRPEY ANRLLGTSYPEAEQIAILKRLGCRVEGEGPTYRVTPPSHRLDLRLEEDLVEEVARIQGYETIPLALPAFFPA PDNRGVEAPYRKEQRLREVLSGLGFQEVYTYSFMDPEDARRFRLDPPRLLLLNPLAPEKAALRTHLFPG LVRVLKENLDLDRPERALLFEVGRVFREREETHLAGLLFGEGVGLPWAKERLSGYFLLKGYLEALFARLG LAFRVEAQAFPFLHPGVSGRVLVEGEEVGFLGALHPEIAQELELPPVHLFELRLPLPDKPLAFQDPSRHP AAFRDLAVVVPAPTPYGEVEALVREAAGPYLESLALFDLYQGPPLPEGHKSLAFHLRFRHPKRTLRDEE VEEAVSRVAEALRARGFGLRGLDTP

>DM train59

MRFKNVKKTALMLAMFGMATSSNAALFDYNATGDTEFDSPAKQGWMQDNTNNGSGVLTNADG MPAWLVQGIGGRAQWTYSLSTNQHAQASSFGWRMTTEMKVLSGGMITNYYANGTQRVLPIISLDS SGNLVVEFEGQTGRTVLATGTAATEYHKFELVFLPGSNPSASFYFDGKLIRDNIQPTASKQNMIVWGN GSSNTDGVAAYRDIKFEIQGDVIFRGPDRIPSIVASSVTPGVVTAFAEKRVGGGDPGALSNTNDIITRTS RDGGITWDTELNLTEQINVSDEFDFSDPRPIYDPSSNTVLVSYARWPTDAAQNGDRIKPWMPNGIFY SVYDVASGNWQAPIDVTDQVKERSFQIAGWGGSELYRRNTSLNSQQDWQSNAKIRIVDGAANQIQ VADGSRKYVVTLSIDESGGLVANLNGVSAPIILQSEHAKVHSFHDYELQYSALNHTTTLFVDGQQITT WAGEVSQENNIQFGNADAQIDGRLHVQKIVLTQQGHNLVEFDAFYLAQQTPEVEKDLEKLGWTKIK TGNTMSLYGNASVNPGPGHGITLTRQQNISGSQNGRLIYPAIVLDRFFLNVMSIYSDDGGSNWQTG STLPIPFRWKSSSILETLEPSEADMVELQNGDLLLTARLDFNQIVNGVNYSPRQQFLSKDGGITWSLLE ANNANVFSNISTGTVDASITRFEQSDGSHFLLFTNPQGNPAGTNGRQNLGLWFSFDEGVTWKGPIQ LVNGASAYSDIYQLDSENAIVIVETDNSNMRILRMPITLLKQKLTLSQN

#### >DM train60

AGGHGDVGMHVKEKEKNKDENKRKDEERNKTQEEHLKEIMKHIVKIEVKGEEAVKKEAAEKLLEKVPS DVLEMYKAIGGKIYIVDGDITKHISLEALSEDKKKIKDIYGKDALLHEHYVYAKEGYEPVLVIQSSEDYVE NTEKALNVYYEIGKILSRDILSKINQPYQKFLDVLNTIKNASDSDGQDLLFTNQLKEHPTDFSVEFLEQN SNEVQEVFAKAFAYYIEPQHRDVLQLYAPEAFNYMDKFNEQEINLSLEELKDQRMLSRYEKWEKIKQH YQHWSDSLSEEGRGLLKKLQIPIEPKKDDIIHSLSQEEKELLKRIQIDSSDFLSTEEKEFLKKLQIDIRDSLSE EEKELLNRIQVDSSNPLSEKEKEFLKKLKLDIQPYDINQRLQDTGGLIDSPSINLDVRKQYKRDIQNIDAL LHQSIGSTLYNKIYLYENMNINNLTATLGADLVDSTDNTKINRGIFNEFKKNFKYSISSNYMIVDINERP ALDNERLKWRIQLSPDTRAGYLENGKLILQRNIGLEIKDVQIIKQSEKEYIRIDAKVVPKSKIDTKIQEAQL NINQEWNKALGLPKYTKLITFNVHNRYASNIVESAYLILNEWKNNIQSDLIKKVTNYLVDGNGRFVFT DITLPNIAEQYTHQDEIYEQVHSKGLYVPESRSILLHGPSKGVELRNDSEGFIHEFGHAVDDYAGYLLDK NQSDLVTNSKKFIDIFKEEGSNLTSYGRTNEAEFFAEAFRLMHSTDHAERLKVQKNAPKTFQFINDQIK FIINS

# >DM\_train61

MNQNLLVTKRDGSTERINLDKIHRVLDWAAEGLHNVSISQVELRSHIQFYDGIKTSDIHETIIKAAADLI SRDAPDYQYLAARLAIFHLRKKAYGQFEPPALYDHVVKMVEMGKYDNHLLEDYTEEEFKQMDTFIDH DRDMTFSYAAVKQLEGKYLVQNRVTGEIYESAQFLYILVAACLFSNYPRETRLQYVKRFYDAVSTFKISL PTPIMSGVRTPTRQFSSCVLIECGDSLDSINATSSAIVKYVSQRAGIGINAGRIRALGSPIRGGEAFHTGC IPFYKHFQTAVKSCSQGGVRGGAATLFYPMWHLEVESLLVLKNNRGVEGNRVRHMDYGVQINKLM YTRLLKGEDITLFSPSDVPGLYDAFFADQEEFERLYTKYEKDDSIRKQRVKAVELFSLMMQERASTGRIYI QNVDHCNTHSPFDPAIAPVRQSNLCLEIALPTKPLNDVNDENGEIALCTLSAFNLGAINNLDELEELAI LAVRALDALLDYQDYPIPAAKRGAMGRRTLGIGVINFAYYLAKHGKRYSDGSANNLTHKTFEAIQYYL LKASNELAKEQGACPWFNETTYAKGILPIDTYKKDLDTIANEPLHYDWEALRESIKTHGLRNSTLSALM PSETSSQISNATNGIEPPRGYVSIKASKDGILRQVVPDYEHLHDAYELLWEMPGNDGYLQLVGIMQKFI DQSISANTNYDPSRFPSGKVPMQQLLKDLLTAYKFGVKTLYYQNTRDGAEDAQDDLVPSIQDDGCE SGACKI

### >DM train62

ANADNYKNVINRTGAPQYMKDYDYDDHQRFNPFFDLGAWHGHLLPDGPNTMGGFPGVALLTEEY INFMASNFDRLTVWQDGKKVDFTLEAYSIPGALVQKLTAKDVQVEMTLRFATPRTSLLETKITSNKPLD LVWDGELLEKLEAKEGKPLSDKTIAGEYPDYQRKISATRDGLKVTFGKVRATWDLLTSGESEYQVHKSL PVQTEINGNRFTSKAHINGSTTLYTTYSHLLTAQEVSKEQMQIRDILARPAFYLTASQQRWEEYLKKGL TNPDATPEQTRVAVKAIETLNGNWRSPGGAVKFNTVTPSVTGRWFSGNQTWPWDTWKQAFAMA HFNPDIAKENIRAVFSWQIQPGDSVRPQDVGFVPDLIAWNLSPERGGDGGNWNERNTKPSLAAWS VMEVYNVTQDKTWVAEMYPKLVAYHDWWLRNRDHNGNGVPEYGATRDKAHNTESGEMLFTVKK GDKEETQSGLNNYARVVEKGQYDSLEIPAQVAASWESGRDDAAVFGFIDKEQLDKYVANGGKRSD WTVKFAENRSQDGTLLGYSLLQESVDQASYMYSDNHYLAEMATILGKPEEAKRYRQLAQQLADYIN TCMFDPTTQFYYDVRIEDKPLANGCAGKPIVERGKGPEGWSPLFNGAATQANADAVVKVMLDPKEF NTFVPLGTAALTNPAFGADIYWRGRVWVDQFWFGLKGMERYGYRDDALKLADTFFRHAKGLTADG PIQENYNPLTGAQOGAPNFSWSAAHLYMLYNDFFRKQ

### >DM\_train63

MLNQELELSLNMAFARAREHRHEFMTVEHLLLALLSNPSAREALEACSVDLVALRQELEAFIEQTTPVL PASEEERDTQPTLSFQRVLQRAVFHVQSSGRNEVTGANVLVAIFSEQESQAAYLLRKHEVSRLDVVNF ISHGTRKDEPTQSSDPGSQPNSEEQAGGEERLENFTTNLNQLARVGGIDPLIGREKELERAIQVLCRRR KNNPLLVGESGVGKTAIAEGLAWRIVQGDVPEVMADCTIYSLDIGSLLAGTKYRGDFEKRFKALLKQLE QDTNSILFIDEIHTIIGAGAASGGQVDAANLIKPLLSSGKIRVIGSTTYQEFSNIFEKDRALARRFQKIDITE PSIEETVQIINGLKPKYEAHHDVRYTAKAVRAAVELAVKYINDRHLPDKAIDVIDEAGARARLMPVSKR KKTVNVADIESVVARIARIPEKSVSQSDRDTLKNLGDRLKMLVFGQDKAIEALTEAIKMARAGLGHEHK PVGSFLFAGPTGVGKTEVTVQLSKALGIELLRFDMSEYMERHTVSRLIGAPPGYVGFDQGGLLTDAVIK HPHAVLLLDEIEKAHPDVFNILLOVMDNGTLTDNNGRKADFRNVVLVMTTNAGVRETERKSIGLIHO

DNSTDAMEEIKKIFTPEFRNRLDNIIWFDHLSTDVIHQVVDKFIVELQVQLDQKGVSLEVSQEARNWL AEKGYDRAMGARPMARVIQDNLKKPLANELLFGSLVDGGQVTVALDKEKNELTYGFQSAQKHKAEA AH

### >DM\_train66

KDWTQYVNPLMGSQSTFELSTGNTYPAIARPWGMNFWTPQTGKMGDGWQYTYTANKIRGFKQT HQPSPWINDYGQFSIMPIVGQPVFDEEKRASWFAHKGEVATPYYYKVYLAEHDIVTEMTPTERAVLFR FTFPENDHSYVVVDAFDKGSYIKIIPEENKIIGYTTRNSGGVPENFKNYFIIEFDKPFTYKATVENGNLQE NVAEQTTDHAGAIIGFKTRKGEQVNARIASSFISFEQAAANMNELGKDNIEQLAQKGKDAWNQVLG KIEVEGGNLDQYRTFYSCLYRSLLFPRKFYELDANGQPIHYSPYNGQVLPGYMFTDTGFWDTFRCLFPL LNLMYPSVNKEMQEGLINTYLESGFFPEWASPGHRGCMVGNNSASILVDAYMKGVKVDDIKTLYEG LIHGTENVHPEVSSTGRLGYEYYNKLGYVPYDVKINENAARTLEYAYDDWCIYRLAKELKRPKKEISLFA KRAMNYKNLFDKESKLMRGRNEDGTFQSPFSPLKWGDAFTEGNSWHYTWSVFHDPQGLIDLMGG KEMFVTMMDSVFAVPPIFDDSYYGQVIHEIREMTVMNMGNYAHGNQPIQHMIYLYDYAGQPWKA QYWLRQVMDRMYTPGPDGYCGDEDNGQTSAWYVFSALGFYPVCPGTDEYVMGTPLFKKATLHFE NGNSLVIDAPNNSTENFYIDSMSFNGADHTKNYLRHEDLFKGGTIKVDMSNRPNLNRGTKEEDMPY SFSKELEHHHHHH

# >DM\_train67

MTDRVSVGNLRIARVLYDFVNNEALPGTDIDPDSFWAGVDKVVADLTPQNQALLNARDELQAQID KWHRRRVIEPIDMDAYRQFLTEIGYLLPEPDDFTITTSGVDAEITTTAGPQLVVPVLNARFALNAANAR WGSLYDALYGTDVIPETDGAEKGPTYNKVRGDKVIAYARKFLDDSVPLSSGSFGDATGFTVQDGQLV VALPDKSTGLANPGQFAGYTGAAESPTSVLLINHGLHIEILIDPESQVGTTDRAGVKDVILESAITTIMDF EDSVAAVDAADKVLGYRNWLGLNKGDLAAAVDKDGTAFLRVLNRDRNYTAPGGGQFTLPGRSLMF VRNVGHLMTNDAIVDTDGSEVFEGIMDALFTGLIAIHGLKASDVNGPLINSRTGSIYIVKPKMHGPAE

VAFTCELFSRVEDVLGLPQNTMKIGIMDEERRTTVNLKACIKAAADRVVFINTGFLDRTGDEIHTSMEA GPMVRKGTMKSQPWILAYEDHNVDAGLAAGFSGRAQVGKGMWTMTELMADMVETKIAQPRAGA STAWVPSPTAATLHALHYHQVDVAAVQQGLAGKRRATIEQLLTIPLAKELAWAPDEIREEVDNNCQS ILGYVVRWVDQGVGCSKVPDIHDVALMEDRATLRISSQLLANWLRHGVITSADVRASLERMAPLVDR QNAGDVAYRPMAPNFDDSIAFLAAQELILSGAQQPNGYTEPILHRRRREFKARAAEKPAPSDRAGDD AAR

>DM train68

MSEEISLSAEFIDRVKASVKPHWGKLGWVTYKRTYARWLPEKGRSENWDETVKRVVEGNINLDPRLO DSPSLELKQSLTEEAERLYKLIYGLGATPSGRNLWISGTDYQRRTGDSLNNCWFVAIRPQKYGDSKIVP SYLGKQEKAVSMPFSFLFDELMKGGGVGFSVARSNISQIPRVDFAIDLQLVVDETSESYDASVKVGAV GKNELVQDADSIYYRLPDTREGWVLANALLIDLHFAQTNPDRKQKLILDLSDIRPYGAEIHGFGGTAS GPMPLISMLLDVNEVLNNKAGGRLTAVDAADICNLIGKAVVAGNVRRSAELALGSNDDODFISMKO DOEKLMHHRWASNNSVAVDSAFSGYOPIAAGIRENGEPGIVNLDLSKNYGRIVDGYOAGIDGDVEG TNPCGEISLANGEPCNLFEVFPLIAEEQGWDLQEVFALAARYAKRVTFSPYDWEISREIIQKNRRIGISM SGIQDWLLTRLGNRVVTGFKDDFDPETHEAIKVPVYDKRAIKMVDQLYKAVVKADQDYSKTLGCNES IKHTTVKPSGTVAKLAGASEGMHFHYGAYLIQRIRFQDSDPLLPALKACGYRTEADIYTENTTCVEFPIK AVGADNPNFASAGTVSIAEQFATQAFLQTYWSDNAVSCTITFQDSEGDQVESLLRQYRFITKSTSLLP YFGGSLQQAPKEPIDKETYEKRSQEITGNVEEVFSQLNSDVKDLELVDQTDCEGGACPIK 

>DM\_train69

EVKQENRLLNESESSSQGLLGYYFSDLNFQAPMVVTSSTTGDLSIPSSELENIPSENQYFQSAIWSGFIK VKKSDEYTFATSADNHVTMWVDDQEVINKASNSNKIRLEKGRLYQIKIQYQRENPTEKGLDFKLYWT DSQNKKEVISSDNLQLPELKQKSSNSRKKRSTSAGPTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSP WISNIHEKKGLTKYKSSPEKWSTASDPYSDFEKVTGRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNE DQSTQNTDSETRTISKNTSTSRTHTSEVHGNAEVHASFFDIGGSVSAGFSNSNSSTVAIDHSLSLAGER

TWAETMGLNTADTARLNANIRYVNTGTAPIYNVLPTTSLVLGKNQTLATIKAKENQLSQILAPNNYYP SKNLAPIALNAQDDFSSTPITMNYNQFLELEKTKQLRLDTDQVYGNIATYNFENGRVRVDTGSNWSE VLPQIQETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPNGNLQYQGKDITE FDFNFDQQTSQNIKNQLAELNATNIYTVLDKIKLNAKMNILIRDKRFHYDRNNIAVGADESVVKEAHR EVINSSTEGLLLNIDKDIRKILSGYIVEIEDTEGLKEVINDRYDMLNISSLRQDGKTFIDFKKYNDKLPLYIS NPNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKKGYEIG

### >DM train73

MAPSLDSISHSFANGVASAKQAVNGASTNLAVAGSHLPTTQVTQVDIVEKMLAAPTDSTLELDGYSL NLGDVVSAARKGRPVRVKDSDEIRSKIDKSVEFLRSQLSMSVYGVTTGFGGSADTRTEDAISLQKALLE HQLCGVLPSSFDSFRLGRGLENSLPLEVVRGAMTIRVNSLTRGHSAVRLVVLEALTNFLNHGITPIVPLR GTISASGDLSPLSYIAAAISGHPDSKVHVVHEGKEKILYAREAMALFNLEPVVLGPKEGLGLVNGTAVS ASMATLALHDAHMLSLLSQSLTAMTVEAMVGHAGSFHPFLHDVTRPHPTQIEVAGNIRKLLEGSRFA VHHEEEVKVKDDEGILRQDRYPLRTSPQWLGPLVSDLIHAHAVLTIEAGQSTTDNPLIDVENKTSHHG GNFQAAAVANTMEKTRLGLAQIGKLNFTQLTEMLNAGMNRGLPSCLAAEDPSLSYHCKGLDIAAAA YTSELGHLANPVTTHVQPAEMANQAVNSLALISARRTTESNDVLSLLLATHLYCVLQAIDLRAIEFEFK KQFGPAIVSLIDQHFGSAMTGSNLRDELVEKVNKTLAKRLEQTNSYDLVPRWHDAFSFAAGTVVEVL SSTSLSLAAVNAWKVAAAESAISLTRQVRETFWSAASTSSPALSYLSPRTQILYAFVREELGVKARRGD VFLGKQEVTIGSNVSKIYEAIKSGRINNVLLKMLA

### >DM\_train74

QNVSLQPPPQQLIVQNKTIDLPAVYQLNGGEEANPHAVKVLKELLSGKQSSKKGMLISIGEKGDKSVR KYSRQIPDHKEGYYLSVNEKEIVLAGNDERGTYYALQTFAQLLKDGKLPEVEIKDYPSVRYRGVVEGFY GTPWSHQARLSQLKFYGKNKMNTYIYGPKDDPYHSAPNWRLPYPDKEAAQLQELVAVANENEVDF VWAIHPGQDIKWNKEDRDLLLAKFEKMYQLGVRSFAVFFDDISGEGTNPQKQAELLNYIDEKFAQVK PDINOLVMCPTEYNKSWSNPNGNYLTTLGDKLNPSIQIMWTGDRVISDITRDGISWINERIKRPAYIW

WNFPVSDYVRDHLLLGPVYGNDTTIAKEMSGFVTNPMEHAESSKIAIYSVASYAWNPAKYDTWQTW KDAIRTILPSAAEELECFAMHNSDLGPNGHGYRREESMDIQPAAERFLKAFKEGKNYDKADFETLQYT FERMKESADILLMNTENKPLIVEITPWVHQFKLTAEMGEEVLKMVEGRNESYFLRKYNHVKALQQQM FYIDQTSNQNPYQPGVKTATRVIKPLIDRTFATVVKFFNQKFNAHLDATTDYMPHKMISNVEQIKNLP LQVKANRVLISPANEVVKWAAGNSVEIELDAIYPGENIQINFGKDAPCTWGRLEISTDAKEWKTVDLK QKESRLSAGLQKAPVKFVRFTNVSDEEQQVYLRQFVLTIEKK

### >DM train75

GVTVIPRLLGLKDEKKIATTVGEARLSGINYRHPDSALVSYPVAAAAPLGRLPAGNYRIAIVGGGAGGIA ALYELGRLAATLPAGSGIDVQIYEADPDSFLHDRPGIKAIKVRGLKAGRVSAALVHNGDPASGDTIYEV GAMRFPEIAGLTWHYASAAFGDAAPIKVFPNPGKVPTEFVFGNRVDRYVGSDPKDWEDPDSPTLKVL GVVAGGLVGNPQGENVAMYPIANVDPAKIAAILNAATPPADALERIQTKYWPEFIAQYDGLTLGAAV REIVTVAFEKGTLPPVDGVLDVDESISYYVELFGRFGFGTGGFKPLYNISLVEMMRLILWDYSNEYTLPV TENVEFIRNLFLKAQNVGAGKLVVQVRQERVANACHSGTASARAQLLSYDSHNAVHSEAYDFVILAV PHDQLTPIVSRSGFEHAASQNLGDAGLGLETHTYNQVYPPLLLSDSSPAANARIVTAIGQLHMARSSK VFATVKTAALDQPWVPQWRGEPIKAVVSDSGLAASYVVPSPIVEDGQAPEYSSLLASYTWEDDSTRL RHDFGLYPQNPATETGTADGMYRTMVNRAYRYVKYAGASNAQPWWFYQLLAEARTADRFVFDWT TNKTAGGFKLDMTGDHHQSNLCFRYHTHALAASLDNRFFIASDSYSHLGGWLEGAFMSALNAVAG LIVRANRGDVSALSTEARPLVIGLRPVVKVPAAELATSQ

### >DM\_train77

MKKLFVTCIVFFSILSPALLIAQQTGTAELIMKRVMLDLKKPLRNMDKVAEKNLNTLQPDGSWKDVPY KDDAMTNWLPNNHLLQLETIIQAYIEKDSHYYGDDKVFDQISKAFKYWYDSDPKSRNWWHNEIATP QALGEMLILMRYGKKPLDEALVHKLTERMKRGEPEKKTGANKTDIALHYFYRALLTSDEALLSFAVKELF YPVQFVHYEEGLQYDYSYLQHGPQLQISSYGAVFITGVLKLANYVRDTPYALSTEKLAIFSKYYRDSYLK AIRGSYMDFNVEGRGVSRPDILNKKAEKKRLLVAKMIDLKHTEEWADAIARTDSTVAAGYKIEPYHHQ

FWNGDYVQHLRPAYSFNVRMVSKRTRRSESGNKENLLGRYLSDGATNIQLRGPEYYNIMPVWEWD KIPGITSRDYLTDRPLTKLWGEQGSNDFAGGVSDGVYGASAYALDYDSLQAKKAWFFFDKEIVCLGA GINSNAPENITTTLNQSWLNGPVISTAGKTGRGKITTFKAQGQFWLLHDAIGYYFPEGANLSLSTQSQ KGNWFHINNSHSKDEVSGDVFKLWINHGARPENAQYAYIVLPGINKPEEIKKYNGTAPKVLANTNQL QAVYHQQLDMVQAIFYTAGKLSVAGIEIETDKPCAVLIKHINGKQVIWAADPLQKEKTAVLSIRDLKTG KTNRVKIDFPQQEFAGATVELK

### >DM train79

LMPGGKEFYNFYPEYVVGLQWMGDNYVFIEGDDLVFNKANGKSAQTTRFSAADLNALMPEGCKFQ TTDAFPSFRTLDAGRGLVVLFTQGGLVGFDMLARKVTYLFDTNEETASLDFSPVGDRVAYVRNHNLYI ARGGKLGEGMSRAIAVTIDGTETLVYGQAVHQREFGIEKGTFWSPKGSCLAFYRMDQSMVKPTPIVD YHPLEAESKPLYYPMAGTPSHHVTVGIYHLATGKTVYLQTGEPKEKFLTNLSWSPDENILYVAEVNRA QNECKVNAYDAETGRFVRTLFVETDKHYVEPLHPLTFLPGSNNQFIWQSRRDGWNHLYLYDTTGRLI RQVTKGEWEVTNFAGFDPKGTRLYFESTEASPLERHFYCIDIKGGKTKDLTPESGMHRTQLSPDGSAII DIFQSPTVPRKVTVTNIGKGSHTLLEAKNPDTGYAMPEIRTGTIMAADGQTPLYYKLTMPLHFDPAKK YPVIVYVYGGPHAQLVTKTWRSSVGGWDIYMAQKGYAVFTVDSRGSANRGAAFEQVIHRRLGQTE MADQMCGVDFLKSQSWVDADRIGVHGWSYGGFMTTNLMLTHGDVFKVGVAGGPVIDWNRYAI MYGERYFDAPQENPEGYDAANLLKRAGDLKGRLMLIHGAIDPVVVWQHSLLFLDACVKARTYPDYY VYPSHEHNVMGPDRVHLYETITRYFTDHL

### >DM\_train83

MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLTLHFEGRNYQASVDSLTFSVVTGPAP SQEAGTKARFPLRDAVEEGDWTATVVDQQDCTLSLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGH FILLFNAWCPADAVYLDSEEERQEYVLTQQGFIYQGSAKFIKNIPWNFGQFQDGILDICLILLDVNPKFL KNAGRDCSRRSSPVYVGRVGSGMVNCNDDQGVLLGRWDNNYGDGVSPMSWIGSVDILRRWKNH GCQRVKYGQCWVFAAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIWN

FHCWVESWMTRPDLQPGYEGWQALDPTPQEKSEGTYCCGPVPVRAIKEGDLSTKYDAPFVFAEVN ADVVDWIQQDDGSVHKSINRSLIVGLKISTKSVGRDEREDITHTYKYPEGSSEEREAFTRANHLNKLAE KEETGMAMRIRVGQSMNMGSDFDVFAHITNNTAEEYVCRLLLCARTVSYNGILGPECGTKYLLNLTLE PFSEKSVPLCILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQKRKLVAEVSL QNPLPVALEGCTFTVEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLVPLHMGLHKLVVNFESDKLKAVK GFRNVIIGPA

### >DM train84

VLSGCSNNVSSIKIDRFNNISAVNGPGEEDTWASAQKQGVGTANNYVSKVWFTLANGAISEVYYPTI DTADVKEIKFIVTDGKSFVPDETKDAISKVEKFTDKSLGYKLVNTDKKGRYRITKDIFTDVKRNSLIMKAK FEALEGSIHDYKLYLAYDPHIKNQGSYNEGYVIKANNNEMLMAKRDNVYTALSSNIGWKGYSIGYYKV NDIMTDLDENKQMTKHYDSARGNIIEGAEIDLTKNSEFEIVLSFGQSDSEAAKTALETLGEDYNNLKN NYIDEWTKYCNTLNNFNGKANSLYYNSMMILKASEDKTNKGAYIASLSIPWGDGQRDDNTGGYHLV WSRDLYHVANAFIAAGDVDSANRSLDYLAKVVKDNGMIPQNTWISGKPYWTGIQLDEQADPIILSYR LKRYDLYDSLVKPLADFIIKIGPKTGQERWEEIGGYSPATMAAEVAGLTCAAYIAEQNKDYESAQKYQE KADNWQKLIDNLTYTENGPLGNGQYYIRIAGLSDPDADFMINIANGGGVYDQKEIVDPSFLELVRLG VKSADDPKILNTLKVVDSTIKVDTPKGPSWYRYNHDGYGEPSKTELYHGAGKGRLWPLLTGERGMYEI AAGKDATPYVKAMEKFANEGGIISEQVWEDTGLPTDSASPLNWAHAEYVILFASNIEHKVLDMPDIV YKRYVA

### >DM\_train85

TDAKNNLLYFFDRPNEPCFMQKGEDKVVFEIPDHYYPDKYKSLSNTLSNRFGNEATKRIPIRNITLPNLE VPMQLPYNDQFSLFVPKHRTMAAKLIDIFMGMRDVEDLQSVCSYCQLRINPYMFNYCLSVAILHRPD TKGLSIPTFAETFPDKFMDSKVFLRAREVSNVVISGSRMPVNVPINYTANTTEPEQRVAYFREDIGINLH HWHWHLVYPFDSADRSIVNKDRRGELFYYMHQQIIGRYNVERMCNGLPQVKPFSDFSAPIEEGYFPK LDSQVASRTWPPRFAGSVFRNLDRTVDQVKIDVRKLFTWRDQFLEAIQKMAIKMPNGRELPLDEVTG

IDMLGNLMESSIISPNRGYYGDLHNMGHVFAAYTHDPDHRHLEQFGVMGDSATAMRDPFFYRWH RFVDDVFNIYKEKLTPYTNERLDFPGVRVSSVGIEGARPNTLRTLWQQSTVELGRGLDFTPRGSVLARF THLQHDEFQYVIEVNNTTGGNLMGTVRIFMAPKVDDNGQPMSFNKQRRLMIELDKFSQALRPGTN TIRRRSVDSSVTIPYERTFRNQSERPGDPGTAGAAEFDFCGCGWPHHMLIPKGTAQGYPVVLFVMIS NWNNDRIEQDLVGSCNDAASYCGIRDRKYPDKQAMGYPFDRKMANDAATLSDFLRPNMAVRDCS IOFSDTTVERGOOG

### >DM train86

MLRFVTKNSQDKSSDLFSICSDRGTFVAHNRVRTDFKFDNLVFNRVYGVSQKFTLVGNPTVCFNEGS SYLEGIAKKYLTLDGGLAIDNVLNELRSTCGIPGNAVASHAYNITSWRWYDNHVALLMNMLRAYHLQ VLTEQGQYSAGDIPMYHDGHVKIKLPVTIDDTAGPTQFAWPSDRSTDSYPDWAQFSESFPSIDVPYL DVRPLTVTEVNFVLMMMSKWHRRTNLAIDYEAPQLADKFAYRHALTVQDADEWIEGDRTDDQFRP PSSKVMLSALRKYVNHNRLYNQFYTAAQLLAQIMMKPVPNCAEGYAWLMHDALVNIPKFGSIRGRY PFLLSGDAALIQATALEDWSAIMAKPELVFTYAMQVSVALNTGLYLRRVKKTGFGTTIDDSYEDGAFL QPETFVQAALACCTGQDAPLNGMSDVYVTYPDLLEFDAVTQVPITVIEPAGYNIVDDHLVVVGVPVA CSPYMIFPVAAFDTANPYCGNFVIKAANKYLRKGAVYDKLEAWKLAWALRVAGYDTHFKVYGDTHG LTKFYADNGDTWTHIPEFVTDGDVMEVFVTAIERRARHFVELPRLNSPAFFRSVEVSTTIYDTHVQAG AHAVYHASRINLDYVKPVSTGIQVINAGELKNYWGSVRRTQQGLGVVGLTMPAVMPTGEPTAGAA HEELIEQADNVLVE

### >DM\_train87

MTAGYEPCWLRYERKDQYSRLRFEEIVAKRTSPIFQAAVEELQKGLRSMMEIEPQVVQEVNETANSIW LGTLEDEEFERPLEGTLVHPEGYVIRSDVDDGPFRIYIIGKTDAGVLYGVFHFLRLLQMGENIAQLSIIEQ PKNRLRMINHWDNMDGSIERGYAGRSIFFVDDQFVKQNQRIKDYARLLASVGINAISINNVNVHKTE TKLITDHFLPDVAEVADIFRTYGIKTFLSINYASPIEIGGLPTADPLDPEVRWWWKETAKRIYQYIPDFGG FVVKADSEFRPGPFTYGRDHAEGANMLAEALAPFGGLVIWRCFVYNCOODWRDRTTDRAKAAYDH

FKPLDGQFRENVILQIKNGPMDFQVREPVSPLFGAMPKTNQMMEVQITQEYTGQQKHLCFLIPQWK EVLDFDTYAKGKGSEVKKVIDGSLFDYRYSGIAGVSNIGSDPNWTGHTLAQANLYGFGRLAWNPDLS AEEIANEWVVQTFGDDSQVVETISWMLLSSWRIYENYTSPLGVGWMVNPGHHYGPNVDGYEYSH WGTYHYADRDGIGVDRTVATGTGYTAQYFPENAAMYESLDTCPDELLLFFHHVPYTHRLHSGETVIQ HIYNTHFEGVEQAKQLRKRWEQLKGKIDEKRYHDVLERLTIQVEHAKEWRDVINTYFYRKSGIDDQYG RKIYR

### >DM train88

SAPGEDEECGRVRDFVAKLANNTHOHVFDDLRGSVSLSWVGDSTGVILVLTTFHVPLVIMTFGOSKL YRSEDYGKNFKDITDLINNTFIRTEFGMAIGPENSGKVVLTAEVSGGSRGGRIFRSSDFAKNFVQTDLPF HPLTQMMYSPQNSDYLLALSTENGLWVSKNFGGKWEEIHKAVCLAKWGSDNTIFFTTYANGSCKAD LGALELWRTSDLGKSFKTIGVKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGDTWSMAQLPSVGQ EOFYSILAANDDMVFMHVDEPGDTGFGTIFTSDDRGIVYSKSLDRHLYTTTGGETDFTNVTSLRGVYIT SVLSEDNSIQTMITFDQGGRWTHLRKPENSECDATAKNKNECSLHIHASYSISQKLNVPMAPLSEPNA VGIVIAHGSVGDAISVMVPDVYISDDGGYSWTKMLEGPHYYTILDSGGIIVAIEHSSRPINVIKFSTDEG QCWQTYTFTRDPIYFTGLASEPGARSMNISIWGFTESFLTSQWVSYTIDFKDILERNCEEKDYTIWLAH STDPEDYEDGCILGYKEQFLRLRKSSMCQNGRDYVVTKQPSICLCSLEDFLCDFGYYRPENDSKCVEQ PELKGHDLEFCLYGREEHLTTNGYRKIPGDKCOGGVNPVREVKDLKKKCTSNFLSPEKONSKSNS 1111

### >DM\_train89

MVKSRKISILLAVAMLVSIMIPTTAFAGPTKAPTKDGTSYKDLFLELYGKIKDPKNGYFSPDEGIPYHSIET LIVEAPDYGHVTTSEAFSYYVWLEAMYGNLTGNWSGVETAWKVMEDWIIPDSTEQPGMSSYNPNSP ATYADEYEDPSYYPSELKFDTVRVGSDPVHNDLVSAYGPNMYLMHWLMDVDNWYGFGTGTRATFI NTFQRGEQESTWETIPHPSIEEFKYGGPNGFLDLFTKDRSYAKQWRYTNAPDAEGRAIQAVYWANK WAKEQGKGSAVASVVSKAAKMGDFLRNDMFDKYFMKIGAQDKTPATGYDSAHYLMAWYTAWGG GIGASWAWKIGCSHAHFGYQNPFQGWVSATQSDFAPKSSNGKRDWTTSYKRQLEFYQWLQSAEG

GIAGGATNSWNGRYEKYPAGTSTFYGMAYVPHPVYADPGSNQWFGFQAWSMQRVMEYYLETGD SSVKNLIKKWVDWVMSEIKLYDDGTFAIPSDLEWSGQPDTWTGTYTGNPNLHVRVTSYGTDLGVAG SLANALATYAAATERWEGKLDTKARDMAAELVNRAWYNFYCSEGKGVVTEEARADYKRFFEQEVYV PAGWSGTMPNGDKIQPGIKFIDIRTKYRQDPYYDIVYQAYLRGEAPVLNYHRFWHEVDLAVAMGVL ATYFPDMTYKVPGTPSTKLYG

### >DM train90

SPCSVVNDLRWDLSAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTYTVQRNILDF POHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYORIVWLOEKVOKDSLRPEAARYLERLIKLGRRN GLHLPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVTLKYPH YFPLLKKCHVPETRRKVEEAFNSRCKEENSAILKELVTLRAQKSRLLGFHTHADYVLEMNMAKTSQTVA TFLDELAOKLKPLGEOERAVILELKRAECERRGLPFDGRIRAWDMRYYMNOVEETRYCVDONLLKEYF PVQVVTHGLLGIYOELLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREGKYGHAAC FGLOPGCLRODGSROIAIAAMVANFTKPTADAPSLLOHDEVRTYFHEFGHVMHQLCSQAEFAMFSG THVETDFVEAPSQMLENWVWEQEPLLRMSRHYRTGSAVPRELLEKLIESRQANTGLFNLRQIVLAKV DQALHTQTDADPAEEYARLCQEILGVPATPGTNMPATFGHLAGGYDAQYYGYLWSEVYSMDMFHT RFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRFLGRDPKQDAFLLSKGLQVGGCEPEPQVC >DM train91

AGVDEAAIRATEQAGGEWLSHGRTYAEQRFSPLKQIDASNVRSLGLAWYMDLDNTRGLEATPLFHD GVIYTSMSWSRVIAVDAASGKELWRYDPEVAKVKARTSCCDAVNRGVALWGDKVYVGTLDGRLIAL DAKTGKAIWSQQTTDPAKPYSITGAPRVVKGKVIIGNGGAEYGVRGFVSAYDADTGKLAWRFYTVPG DPALPYEHPELREAAKTWQGDQYWKLGGGGTVWDSMAYDPELDLLYVGTGNGSPWNREVRSPGG GDNLYLSSILAIRPDTGKLAWHYQVTPGDSWDFTATQQITLAELNIDGKPRKVLMQAPKNGFFYVLD RTNGKLISAEKFGKVTWAEKVDLATGRPVEAPGVRYEKEPIVMWPSPFGAHNWHSMSFNPGTGLVYI PYQEVPGVYRNEGKDFVTRKAFNTAAGFADATDVPAAVVSGALLAWDPVKQKAAWKVPYPTHWN GGTLSTAGNLVFQGTAAGQMHAYSADKGEALWQFEAQSGIVAAPMTFELAGRQYVAIMAGWGGV

ATLTGGESMNLPGMKNRSRLLVFALDGKAQLPPPAPAPAKVERVPQPVTAAPEQVQAGKQLYGQF CSVCHGMGTISGGLIPDLRQSSDATREHFQQIVLQGALKPLGMPSFDDSLKPEEVEQIKLYVMSREYE DYMARHKAAP

MSLSIPREFSNAIRFLSIDATLKAKSGHPGMPMGMADIATVLWTKFLKHNPNNPHWINRDRFVLSNG HGSMLLYSLLHLTGYDLSIEDIKNFRQLHSKTPGHPEYGYTPGVETTTGPLGQGVANAVGMALGEKLL SDRYNTPDLKVIDHHTYVFLGDGCLMEGVSHEACSLAGTLGLNKLVAFWDDNNISIDGDTKGWFSD NTPERFRAYGWHVIENVDGHDFVAIEKAINEAHSQQQKPTLICCKTVIGFGSPEKAGTASVHGSPLSD OERASAAKELNWDYOAFEIPODVYKYWDAREKGOALEANWOGORNLFKDSPKFDEFERVLSKELPV GLESAINDYIASQLSNPVKVATRKASQMVLEVLCKNMPEMFGGSADLTGSNNTNWSGSVWLNNTQ EGANYLSYGVREFGMAAIMNGLSLYGGIKPYGGTFLVFSDYSRNAIRMSALMKQPVVHVMSHDSIGL GEDGPTHOPIEHVPSLRLIPNLSVWRPADTIETMIAWKEAVKSKDTPSVMVLTRONLMPVVOTOHO VANIARGGYLVKDNPDAKLTIVATGSEVELAVKVANEFEKKGIKLNVASIPCVEVFATQAHEYKKTVIKD DIPAVFVEMAQPDMWYKYMPKAGGEVKGIYSFGESAPAEDLFKRFGFTVENISNIVAKYV >DM train97

MERINFIFGIHNHQPLGNFGWVFEEAYNRSYRPFMEILEEFPEMKVNVHFSGPLLEWIEENKPDYLDLL RSLIKRGQLEIVVAGFYEPVLAAIPKEDRLVQIEMLKDYARKLGYDAKGVWLTERVWQPELVKSLREAGI EYVVVDDYHFMSAGLSKEELFWPYYTEDGGEVITVFPIDEKLRYLIPFRPVKKTIEYLESLTSDDPSKVAV FHDDGEKFGVWPGTYEWVYEKGWLREFFDAITSNEKINLMTYSEYLSKFTPRGLVYLPIASYFEMSEWS LPAKQAKLFVEFVEQLKEEGKFEKYRVFVRGGIWKNFFFKYPESNFMHKRMLMVSKAVRDNPEARKYI LKAQCNDAYWHGVFGGIYLPHLRRTVWENIIKAQRYLKPENKILDVDFDGRAEIMVENDGFIATIKPH YGGSIFELSSKRKAVNYNDVLPRRWEHYHEVPEATKPEKESEEGIASIHELGKQIPEEIRRELAYDWQLR AILQDHFIKPEETLDNYRLVKYHELGDFVNQPYEYEMIENGVKLWREGGVYAEEKIPARVEKKIELTEDG FIAKYRVLLEKPYKALFGVEINLAVHSVMEKPEEFEAKEFEVNDPYGIGKVRIELDKAAKVWKFPIKTLSQ SEAGWDFIOOGVSYTMLFPIEKELEFTVRFREL

>DM train98

>DM\_train100

MNFLRGVMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKKYRLEVGIQAMEHLIH VLQTDRSDSEIIGYALDTLYNIISNDEEEEVEENSTRQSEDLGSQFTEIFIKQQENVTLLLSLLEEFDFHVR WPGVKLLTSLLKQLGPQVQQIILVSPMGVSRLMDLLADSREVIRNDGVLLLQALTRSNGAIQKIVAFE NAFERLLDIITEEGNSDGGIVVEDCLILLQNLLKNNNSNQNFFKEGSYIQRMKPWFEVGDENSGWSA QKVTNLHLMLQLVRVLVSPNNPPGATSSCQKAMFQCGLLQQLCTILMATGVPADILTETINTVSEVIR GCQVNQDYFASVNAPSNPPRPAIVVLLMSMVNERQPFVLRCAVLYCFQCFLYKNQKGQGEIVSTLL PSTIDATGNTVSAGQLLCGGLFSTDSLSNWCAAVALAHALQENATQKEQLLRVQLATSIGNPPVSLL QQCTNILSQGSKIQTRVGLLMLLCTWLSNCPIAVTHFLHNSANVPFLTGQIAENLGEEEQLVQGLCAL LLGISIYFNDNSLETYMKEKLKQLIEKRIGKENFIEKLGFISKHELYSRASQKPQPNFPSPEYMIFDHEFTKL VKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDSI

### >DM train101

MGGSHHHHHHGMASLAPGSSRVELFKRQSSKVPFEKDGKVTERVVHSFRLPALVNVDGVMVAIAD ARYETSFDNSLIDTVAKYSVDDGETWETQIAIKNSRASSVSRVVDPTVIVKGNKLYVLVGSYNSSRSYW TSHGDARDWDILLAVGEVTKSTAGGKITASIKWGSPVSLKEFFPAEMEGMHTNQFLGGAGVAIVASN GNLVYPVQVTNKKKQVFSKIFYSEDEGKTWKFGKGRSAFGCSEPVALEWEGKLIINTRVDYRRRLVYES SDMGNTWLEAVGTLSRVWGPSPKSNQPGSQSSFTAVTIEGMRVMLFTHPLNFKGRWLRDRLNLWL TDNQRIYNVGQVSIGDENSAYSSVLYKDDKLYCLHEINSNEVYSLVFARLVGELRIIKSVLQSWKNWD SHLSSICTPADPAASSSERGCGPAVTTVGLVGFLSHSATKTEWEDAYRCVNASTANAERVPNGLKFA GVGGGALWPVSQQGQNQRYHFANHAFTLVASVTIHEVPKGASPLLGASLDSSGGKKLLGLSYDKRH QWQPIYGSTPVTPTGSWEMGKRYHVVLTMANKIGSVYIDGEPLEGSGQTVVPDERTPDISHFYVGGY KRSGMPTDSRVTVNNVLLYNRQLNAEEIRTLFLSQDLIGTEAHMD

### >DM\_train106

APAADAAQAHDPLSVQTGSDIPASVHMPTDQQRDYIKREVMVPMRDGVKLYTVIVIPKNARNAPIL LTRTPYNAKGRANRVPNALTMREVLPQGDDVFVEGGYIRVFQDIRGKYGSQGDYVMTRPPHGPLNP TKTDETTDAWDTVDWLVHNVPESNGRVGMTGSSYEGFTVVMALLDPHPALKVAAPESPMVDGW MGDDWFHYGAFRQGAFDYFVSQMTARGGGNDIPRRDADDYTNFLKAGSAGSFATQAGLDQYPF WQRMHAHPAYDAFWQGQALDKILAQRKPTVPMLWEQGLWDQEDMWGAIHAWQALKDADVK APNTLVMGPWRHSGVNYNGSTLGPLEFEGDTAHQYRRDVFRPFFDEYLKPGSASVHLPDAIIYNTGD QKWDYYRSWPSVCESNCTGGLTPLYLADGHGLSFTHPAADGADSYVSDPAHPVPFISRPFAFAQSSR WKPWLVQDQREAESRPDVVTYETEVLDEPVRVSGVPVADLFAATSGTDSDWVVKLIDVQPAMTPD DPKMGGYELPVSMDIFRGRYRKDFAKPEALQPDATLHYHFTLPAVNHVFAKGHRIMVQIQSSWFPLY DRNPQKFVPNIFDAKPADYTVATQSIHHGGKEATSILLPVVKQEQKLISEEDL

### >DM train107

GSHMLDNMDVIGERIKRIKEEHNSTWHYDDENPYKTWAYHGSYEVKATGSASSMINGVVKLLTKPW DVVPMVTQMAMTDTTPFGQQRVFKEKVDTRTPRPLPGTRKVMEITAEWLWRTLGRNKRPRLCTREE FTKKVRTNAAMGAVFTEENQWDSAKAAVEDEEFWKLVDRERELHKLGKCGSCVYNMMGKREKKLG EFGKAKGSRAIWYMWLGARYLEFEALGFLNEDHWFSRENSYSGVEGEGLHKLGYILRDISKIPGGAMY ADDTAGWDTRITEDDLHNEEKIIQQMDPEHRQLANAIFKLTYQNKVVKVQRPTPTGTVMDIISRKDQ RGSGQVGTYGLNTFTNMEAQLVRQMEGEGVLTKADLENPHLLEKKITQWLETKGVERLKRMAISGD DCVVKPIDDRFANALLALNDMGKVRKDIPQWQPSKGWHDWQQVPFCSHHFHELIMKDGRKLVVP CRPQDELIGRARISQGAGWSLRETACLGKAYAQMWSLMYFHRRDLRLASNAICSAVPVHWVPTSRT TWSIHAHHQWMTTEDMLTVWNRVWIEENPWMEDKTPVTTWENVPYLGKREDQWCGSLIGLTSRA TWAQNIPTAIQQVRSLIGNEEFLDYMPSMKRFRKEEESEGAIW

### >DM train108

MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWWGPLLSNVTMEAEYVLLCHILDRVDRDRMEKIRRY LLHEQREDGTWALYPGGPPDLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLA LVGEYPWEKVPMVPPEIMFLGKRMPLNIYEFGSWARATVVALSIVMSRQPVFPLPERARVPELYETDV PPRRRGAKGGGGWIFDALDRALHGYQKLSVHPFRRAAEIRALDWLLERQAGDGSWGGIQPPWFYA LIALKILDMTQHPAFIKGWEGLELYGVELDYGGWMFQASISPVWDTGLAVLALRAAGLPADHDRLVK AGEWLLDRQITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVCDTAVVVWALNTLRLPDERRRRDA MTKGFRWIVGMQSSNGGWGAYDVDNTSDLPNHIPFCDFGEVTDPPSEDVTAHVLECFGSFGYDDA WKVIRRAVEYLKREQKPDGSWFGRWGVNYLYGTGAVVSALKAVGIDTREPYIQKALDWVEQHQNP DGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLVETQRPDGGWDE PYYTGTGFPGDFYLGYTMYRHVFPTLALGRYKOAIERR

### >DM\_train110

GELMPPQLQNGLNLSAKVVQGSLDSLPQAVREFLENNAELCQPDHIHICDGSEEENGRLLGQMEEE GILRRLKKYDNCWLALTDPRDVARIESKTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAFNARFP GCMKGRTMYVIPFSMGPLGSPLSKIGIELTDSPYVVASMRIMTRMGTPVLEALGDGEFVKCLHSVGCP LPLQKPLVNNWPCNPELTLIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLV LGITNPEGEKKYLAAAFPSACGKTNLAMMNPSLPGWKVECVGDDIAWMKFDAQGHLRAINPENGF FGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEWSSEDGEPCA HPNSRFCTPASQCPIIDAAWESPEGVPIEGIIFGGRRPAGVPLVYEALSWQHGVFVGAAMRSEATAAA EHKGKIIMHDPFAMRPFFGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKEGKFLWPGFGENS RVLEWMFNRIDGKASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEFWDKEVEDIEKYLVDQVNAD LPCEIEREILALKORISOM

### >DM train112

STIRIGGAAVNQTPIDWENNVKNILDAIEEAKNANVEILCLPELCITGYGCEDLFLTDWVAETAIEYCFEI AASCTDITVSLGLPMRIAGITYNCVCLVENGIVKGFSAKQFLANEGVHYETRWFTAWPRNHTTTFLYN DVKYPFGDVLYNVKDARIGFEICEDAWRTDRVGIRHYEKGATLVLNPSASHFAFGKSAIRYDLVIGGSE RFDCTYVYANLLGNEAGRMIYDGEVLIAHKGKLIQRNDRLSFKNVNLIYADIATDSAETPETVLTQDDL EKEFEFWEATSLGLFDYMRKSRSKGFVLSLSGGADSSACAIMVAEMIRKGLKELGLTAFLQKSNMETLF DLPALQHLPFEEQAKKITAVFLTTAYQSTRNSGDETYTSAKTLAESIGATFYNWSVDEEIEQYKATIENVI ERPLTWEKDDITLQNIQARGRAPIIWMLTNVKQALLITTSNRSEGDVGYATMDGDTAGGIAPIAGVDK DFIRSWLRWAEKNRNQHGLHIVNKLAPTAELRPSEYTQTDERDLMPYDVLARIERKAIKERLSPVQVY TALLTEGPYTKNEFKYWVKKFFRLWSINQWKRERLAPSFHMDDFNIDPRSWYRFPILSSGFAKELNDL

### >DM train115

MYGWWGRILRVNLTTGEVKVQEYPEEVAKKFIGGRGLAAWILWNEARGVEPLSPENKLIFAAGPFNG LPTPSGGKLVVAAKSPLTGGYGDGNLGTMASVHLRRAGYDALVVEGKAKKPVYIYIEDDNVSILSAEG LWGKTTFETERELKEIHGKNVGVLTIGPAGENLVKYAVVISQEGRAAGRPGMGAVMGSKKLKAVVIRG TKEIPVADKEELKKLSQEAYNEILNSPGYPFWKRQGTMAAVEWCNTNYALPTRNFSDGYFEFARSIDG YTMEGMKVQQRGCPYCNMPCGNVVLDAEGQESELDYENVALLGSNLGIGKLNEVSVLNRIADEMG MDTISLGVSIAHVMEAVERGILKEGPTFGDFKGAKQLALDIAYRKGELGNLAAEGVKAMAEKLGTHDF AMHVKGLEVSGYNCYIYPAMALAYGTSAIGAHHKEAWVIAWEIGTAPIEGEKAEKVEYKISYDPIKAOK

VVELQRLRGGLFEMLTACRLPWVEVGLSLDYYPKLLKAITGVTYTWDDLYKAADRVYSLIRAYWVREF NGKWDRKMDYPPKRWFTEGLKSGPHKGEHLDEKKYDELLSEYYRIRGWDERGIPKKETLKELDLDFVI PELEKVTNLE

### >DM\_train116

MKPKKRQMEYLTRGLIAVQTEQGVFVSWRFLGTDHETTAFHLYRDGKRITRDPIAESTNFLDQNGTA DSVYQVAAVNKGREEKLSKKARVWQENVLEVPLAKPEGGVTPDGKPYTYSANDASVGDIDGDGEYE MILKWDPSNSKDNAHDGYTGEVLIDAYKLDGTFLWRINLGRNIRAGAHYTQFMVYDLDGDGKAEIA MKTADGTTDGKGHIIGDEQADFRNEQGRILSGPEYLTVFKGETGEALTTVEYEPPRGKLEDWGDGYG NRMDRFLAGTAYLDGERPSLVMARGYYTRTVLVAYDFRNGRLKKRWVFDSNQPGHEAYAGQGNH SLSVADVDGDGKDEIIYGAMAVDHDGTGLYSTGLGHGDAMHVGDLDPSRKGLEVFQVHEDATKPY GLSLRDAGTGEILWGVHAGTDVGRGMAAHIDPSYKGSLVWGIDPPGNDGMSYGLFTSKGEKISDKA PSSANFAIWWDGDLVRELLDHDWDGTIGRPKIEKWDAENGCLKTIFQPAGVLSNNGTKGNPVLQA NLFGDWREEVIWRTEDSSALRIYTTTHLTRHCFYTLMHDPVYRLGIAWQNTAYNQPPHTSFYLGTGM KKPPKPALYIAGSKAEAPL

### >DM train117

MRYIAGIDIGNSSTEVALATLDEAGALTITHSALAETTGIKGTLRNVFGIQEALALVARGAGIAVSDISLIR INEATPVIGDVAMETITETIITESTMIGHNPKTPGGAGLGTGITITPQELLTRPADAPYILVVSSAFDFADI ASVINASLRAGYQITGVILQRDDGVLVSNRLEKPLPIVDEVLYIDRIPLGMLAAIEVAVPGKVIETLSNPY GIATVFNLSPEETKNIVPMARALIGNRSAVVVKTPSGDVKARAIPAGNLELLAQGRSVRVDVAAGAEAI MKAVDGCGRLDNVTGESGTNIGGMLEHVRQTMAELTNKPSSEIFIQDLLAVDTSVPVSVTGGLAGEF SLEQAVGIASMVKSDRLQMAMIAREIEQKLNIDVQIGGAEAEAAILGALTTPGTTRPLAILDLGAGSTD ASIINPKGDIIATHLAGAGDMVTMIIARELGLEDRYLAEEIKKYPLAKVESLFHLRHEDGSVQFFSTPLPP AVFARVCVVKADELVPLPGDLALEKVRAIRRSAKERVFVTNALRALRQVSPTGNIRDIPFVVLVGGSSL DFEVPQLVTDALAHYRLVAGRGNIRGSEGPRNAVATGLILSWHKEFAHER

## >DM\_train120

MAKKVNWYVSCSPRSPEKIQPELKVLANFEGSYWKGVKGYKAQEAFAKELAALPQFLGTTYKKEAAFS TRDRVAPMKTYGFVFVDEEGYLRITEAGKMLANNRRPKDVFLKQLVKWQYPSFQHKGKEYPEEEWSI NPLVFVLSLLKKVGGLSKLDIAMFCLTATNNNQVDEIAEEIMQFRNEREKIKGQNKKLEFTENYFFKRFE KIYGNVGKIREGKSDSSHKSKIETKMRNARDVADATTRYFRYTGLFVARGNQLVLNPEKSDLIDEIISSS KVVKNYTRVEEFHEYYGNPSLPQFSFETKEQLLDLAHRIRDENTRLAEQLVEHFPNVKVEIQVLEDIYNS LNKKVDVETLKDVIYHAKELQLELKKKKLQADFNDPRQLEEVIDLLEVYHEKKNVIEEKIKARFIANKNTV FEWLTWNGFIILGNALEYKNNFVIDEELQPVTHAAGNQPDMEIIYEDFIVLGEVTTSKGATQFKMESEP VTRHYLNKKKELEKQGVEKELYCLFIAPEINKNTFEEFMKYNIVQNTRIIPLSLKQFNMLLMVQKKLIEKG RRLSSYDIKNLMVSLYRTTIECERKYTQIKAGLEETLNNWVVDKEVRF

### >DM train121

MASEIHMTGPMCLIENTNGRLMANPEALKILSAITQPMVVVAIVGLYRTGKSYLMNKLAGKKKGFSLG STVQSHTKGIWMWCVPHPKKPGHILVLLDTEGLGDVEKGDNQNDSWIFALAVLLSSTFVYNSIGTIN QQAMDQLYYVTELTHRIRSKSSPDENENEVEDSADFVSFFPDFVWTLRDFSLDLEADGQPLTPDEYLT YSLKLKKGTSQKDETFNLPRLCIRKFFPKKKCFVFDRPVHRRKLAQLEKLQDEELDPEFVQQVADFCSYI FSNSKTKTLSGGIQVNGPRLESLVLTYVNAISSGDLPCMENAVLALAQIENSAAVQKAIAHYEQQMG QKVQLPTESLQELLDLHRDSEREAIEVFIRSSFKDVDHLFQKELAAQLEKKRDDFCKQNQEASSDRCSG LLQVIFSPLEEEVKAGIYSKPGGYRLFVQKLQDLKKKYYEEPRKGIQAEEILQTYLKSKESMTDAILQTDQ TLTEKEKEIEVERVKAESAQASAKMLHEMQRKNEQMMEQKERSYQEHLKQLTEKMENDRVQLLKEQ ERTLALKLQEQEQLLKEGFQKESRIMKNEIQDLQTKMRRRKACTIS

### >DM\_train122

MALKTAVHEKIMNDVVLAVKKNAEWKVLIVDQLSMRMVSACCKMHEIMSEGITLVEDINRRREPLPL LEAVYLITPTEESVKCLMADFQNPDNPQYRGAHIFFTEACPEELFKELCKSTTARFIKTLKEINIAFLPYES QIFSLDSPDTFQVYYNPSRAQGGIPNKERCAEQIATLCATLGEYPSVRYRSDFDENASFAQLVQQKLD AYRADDPTMGEGPQKDRSQLLILDRGFDPISPLLHELTFQAMAYDLLPIENDVYKYVNTGGNEVPEKE VLLDEKDDLWVEMRHQHIAVVSQNVTKKLKQFADEKRMGTAADKAGIKDLSQMLKKMPQYQKELS KYSTHLHLAEDCMKQYQQHVDKLCKVEQDLAMGTDADGEKIRDHMRNIVPILLDQKISAYDKIRIILL YIIHKGGISEENLAKLVQHAHIPAEEKWIINDMQNLGVPIIQDGGRRKIPQPYHTHNRKERQADHTYQ MSRWTPYMKDIMEAAVEDKLDTRHYPFLNGGGPRPSCQQPVSVRYGHWHKDKGQASYKSGPRLIIF VVGGISYSEMRSAYEVTQTAKNNWEVILGSTHILTPEGLLRDLRKISNP

### >DM\_train123

IETGYTPIDISLSLTQFLLSEFVPGAGFVLGLVDIIWGIFGPSQWDAFLVQIEQLINQRIEEFARNQAISRLE GLSNLYQIYAESFREWEADPTNPALREEMRIQFNDMNSALTTAIPLLAVQNYQVPLLSVYVQAANLH LSVLRDVSVFGQRWGFDAATINSRYNDLTRLIGNYTDYAVRWYNTGLERVWGPDSRDWVRYNQFR RELTLTVLDIVALFSNYDSRRYPIRTVSQLTREIYTNPVLENFDGSFRGMAQRIEQNIRQPHLMDILNSIT IYTDVHRGFNYWSGHQITASPVGFSGPEFAFPLFGNAGNAAPPVLVSLTGLGIFRTLSSPLYRRIILGSG PNNQELFVLDGTEFSFASLTTNLPSTIYRQRGTVDSLDVIPPQDNSVPPRAGFSHRLSHVTMLSQAAG AVYTLRAPTFSWQHRSAEFNNIIPSSQITQIPLTKSTNLGSGTSVVKGPGFTGGDILRRTSPGQISTLRV NITAPLSQRYRVRIRYASTTNLQFHTSIDGRPINQGNFSATMSSGSNLQSGSFRTVGFTTPFNFSNGSS VFTLSAHVFNSGNEVYIDRIEFVPAEVTFEAEYDLER

# >DM train125

DAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLVNEVTEFAKTCVADESAENCDKSLHT LFGDKLCTVATLRETYGEMADCCAKQEPERNECFLQHKDDNPNLPRLVRPEVDVMCTAFHDNEETF LKKYLYEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDELRDEGKASSAKQRLKCASLQ KFGERAFKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLECADDRADLAKYICENQDSIS SKLKECCEKPLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHPD YSVVLLLRLAKTYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCELFEQLGEYKFQNALLVR YTKKVPOVSTPTLVEVSRNLGKVGSKCCKHPEAKRMPCAEDYLSVVLNQLCVLHEKTPVSDRVTKCCT

ESLVNRRPCFSALEVDETYVPKEFNAETFTFHADICTLSEKERQIKKQTALVELVKHKPKATKEQLKAVM DDFAAFVEKCCKADDKETCFAEEGKKLVAASQAALGL

### >DM train127

GAMGSPKEHIDLYQQIKWNGWGDTRKFLHQLKPSGTIAMTTPEVSSVPLPSLRGFIKKELTLPGEEDKP FVLDETPALQIENIHVDPPKQYPEFVRELKAFFLPDQLKDDKLARITHTFGKSLRDLIRVRIGQVKNAPD LIVLPHSHEEVERLVQLAHKYNVVIIPMGGGSNIVGAIEPVSNERFTVSIDMRRMNKVLWVDRREMTA CIQVGIMGPELEKQLHKQGVSLGHDPDSFEFSTLGGWLATCSSGHQSDKYGDIEDMAVSFRTVTPTG TLELRNGARSGAGINYKHIILGSEGTLGIITEAVMKVHAVPQAVEYYGFLFPTFAHAVSALQQIRSSEVIP TMIRVYDPEETQLSFAWKPSKGAVSEFTSAMVKKYLHYIRSFDFKNVCLSIIGFEGPKKVVDFHRTSVFD ILSKNAAFGLGSAPGKTWAEKRYDLPYIRDFLLDHNMWVDVAETTVSYANLQTLWKDAKQTFVKHF KDQGIPAWICAHISHTYTNGVCLYFIFASKQNENKDMAQYIEAKKLMTDIIFKYGGSLSHHHGVGYEH VPWMTRYATRGWINVYRSLKETIDPKDICNPRKLI

### >DM\_train128

PVFSADPGAPAPVNPCCYYPCQHQGICVRFGLDRYQCDCTRTGYSGPNCTIPEIWTWLRTTLRPSPS FIHFLLTHGRWLWDFVNATFIRDTLMRLVLTVRSNLIPSPPTYNIAHDYISWESFSNVSYYTRILPSVPR DCPTPMGTKGKKQLPDAEFLSRRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFKTSGKMGPGFTKAL GHGVDLGHIYGDNLERQYQLRLFKDGKLKYQMLNGEVYPPSVEEAPVLMHYPRGIPPQSQMAVGQ EVFGLLPGLMLYATIWLREHNRVCDLLKAEHPTWGDEQLFQTARLILIGETIKIVIEEYVQQLSGYFLQLK FDPELLFGAQFQYRNRIAMEFNQLYHWHPLMPDSFRVGPQDYSYEQFLFNTSMLVDYGVEALVDAF SRQPAGRIGGGRNIDHHILHVAVDVIKESRVLRLQPFNEYRKRFGMKPYTSFQELTGEKEMAAELEELY GDIDALEFYPGLLLEKCHPNSIFGESMIEMGAPFSLKGLLGNPICSPEYWKASTFGGEVGFNLVKTATLK KLVCLNTKTCPYVSFHVPDPRQEDRPGVERPPTEL

>DM\_train129

MVSKIRTFGWVQNPGKFENLKRVVQVFDRNSKVHNEVKNIKIPTLVKESKIQKELVAIMNQHDLIYTY KELVGTGTSIRSEAPCDAIIQATIADQGNKKGYIDNWSSDGFLRWAHALGFIEYINKSDSFVITDVGLAY SKSADGSAIEKEILIEAISSYPPAIRILTLLEDGQHLTKFDLGKNLGFSGESGFTSLPEGILLDTLANAMPKD KGEIRNNWEGSSDKYARMIGGWLDKLGLVKQGKKEFIIPTLGKPDNKEFISHAFKITGEGLKVLRRAKG STKFTRVPKRVYWEMLATNLTDKEYVRTRRALILEILIKAGSLKIEQIQDNLKKLGFDEVIETIENDIKGLIN TGIFIEIKGRFYQLKDHILQFVIPNRLGKPDLVKSELEEKKSELRHKLKYVPHEYIELIEIARNSTQDRILEMK VMEFFMKVYGYRGKHLGGSRKPDGAIYTVGSPIDYGVIVDTKAYSGGYNLPIGQADEMQRYVEENQT RNKHINPNEWWKVYPSSVTEFKFLFVSGHFKGNYKAQLTRLNHITNCNGAVLSVEELLIGGEMIKAGT LTLEEVRRKFNNGEINF

>DM train130

SMSYTWTGALITPCAAEESKLPINALSNSLLRHHNMVYATTSRSAGLRQKKVTFDRLQVLDDHYRDV LKEMKAKASTVKAKLLSVEEACKLTPPHSAKSKFGYGAKDVRNLSSKAVNHIHSVWKDLLEDTVTPIDT TIMAKNEVFCVQPEKGGRKPARLIVFPDLGVRVCEKMALYDVVSTLPQVVMGSSYGFQYSPGQRVEF LVNTWKSKKNPMGFSYDTRCFDSTVTENDIRVEESIYQCCDLAPEARQAIKSLTERLYIGGPLTNSKGQ NCGYRRCRASGVLTTSCGNTLTCYLKASAACRAAKLQDCTMLVNGDDLVVICESAGTQEDAASLRV FTEAMTRYSAPPGDPPQPEYDLELITSCSSNVSVAHDASGKRVYYLTRDPTTPLARAAWETARHTPVN SWLGNIIMYAPTLWARMILMTHFFSILLAQEQLEKALDCQIYGACYSIEPLDLPQIIERLHGLSAFSLHSY SPGEINRVASCLRKLGVPPLRVWRHRARSVRARLLSQGGRAATCGKYLFNWAVKTKLKLTPIPAASQL DLSGWFVAGYSGGDIYHSLSRARPRGSHHHHHH

>DM\_train131

GSNQSSSTSTKKLKAGNFDVAYQNPDKAIKGGNLKVAYQSDSPMKAQWLSGLSNDATFATMSGPG GGQDGLFFTDSGFKFIKGGAADVALDKESKTATITLRKDLKWSDGSEVTAKDYEFTYETIANPAYGSDR WTDSLANIVGLSDYHTGKAKTISGITFPDGENGKVIKVQFKEMKPGMTQSGNGYFLETVAPYQYLKD VAPKDLASSPKTTTKPLVTGPFKPENVVAGESIKYVPNPYYWGEKPKLNSITYEVVSTAKSVAALSSSKY DIINGMVSSQYKQVKNLKGYKVLGQQAMYISLMYYNLGHYDAKNSINVQDRKTPLQDQNVRQAIG YARNVAEVDNKFSNGLSTPANSLIPPIFKQFTSSSVKGYEKQDLDKANKLLDEDGWKLNKSTGYREKD GKELSLVYAARVGDANAETIAQNYIQQWKKIGVKVSLYNGKLMEFNSWVDHMTTPPGANDWDITD GSWSLASEPSQQDLFSAAAPYNFGHFNDSEITKDLNDIDSAKSENPTYRKAAFVKYQEDMNKKAYVI PTNFMLNYTPVNKRVVGMTLDYGAMNTWSEIGVSSAKLATK

### >DM\_train132

MKHMPRKMYSCAFETTTKVEDCRVWAYGYMNIEDHSEYKIGNSLDEFMAWVLKVQADLYFHNLKF AGAFIINWLERNGFKWSADGLPNTYNTIISRMGQWYMIDICLGYKGKRKIHTVIYDSLKKLPFPVKKIAK DFKLTVLKGDIDYHKERPVGYKITPEEYAYIKNDIQIIAEALLIQFKQGLDRMTAGSDSLKGFKDIITTKKF KKVFPTLSLGLDKEVRYAYRGGFTWLNDRFKEKEIGEGMVFDVNSLYPAQMYSRLLPYGEPIVFEGKYV WDEDYPLHIQHIRCEFELKEGYIPTIQIKRSRFYKGNEYLKSSGGEIADLWLSNVDLELMKEHYDLYNVE YISGLKFKATTGLFKDFIDKWTYIKTTSEGAIKQLAKLMLNSLYGKFASNPDVTGKVPYLKENGALGFRL GEEETKDPVYTPMGVFITAWARYTTITAAQACYDRIIYCDTDSIHLTGTEIPDVIKDIVDPKKLGYWAHE STFKRAKYLRQKTYIQDIYMKEVDGKLVEGSPDDYTDIKFSVKCAGMTDKIKKEVTFENFKVGFSRKMK PKPVOVPGGVVLVDDTFTIK

## >DM\_train133

HGTTANTHCGADFCTWWHDSGEINTQTPVQPGNVRQSHKYSVQVSLAGTNNFHDSFVYESIPRN GNGRIYAPTDPPNSNTLDSSVDDGISIEPSIGLNMAWSQFEYSHDVDVKILATDGSSLGSPSDVVIRPV SISYAISQSDDGGIVIRVPADANGRKFSVEFKTDLYTFLSDGNEYVTSGGSVVGVEPTNALVIFASPFLPS GMIPHMTPDNTQTMTPGPINNGDWGAKSILYFPPGVYWMNQDQSGNSGKLGSNHIRLNSNTYW VYLAPGAYVKGAIEYFTKQNFYATGHGILSGENYVYQANAGDNYIAVKSDSTSLRMWWHNNLGGG QTWYCVGPTINAPPFNTMDFNGNSGISSQISDYKQVGAFFFQTDGPEIYPNSVVHDVFWHVNDDAI KIYYSGASVSRATIWKCHNDPIIQMGWTSRDISGVTIDTLNVIHTRYIKSETVVPSAIIGASPFYASGMSP DSRKSISMTVSNVVCEGLCPSLFRITPLQNYKNFVVKNVAFPDGLQTNSIGTGESIIPAASGLTMGLAIS AWTIGGQKVTMENFQANSLGQFNIDGSYWGEWQIS

### >DM train137

SNISRQAYADMFGPTVGDKVRLADTELWIEVEDDLTTYGEEVKFGGGKVIRDGMGQGQMLAADCV DLVLTNALIVDHWGIVKADIGVKDGRIFAIGKAGNPDIQPNVTIPIGAATEVIAAEGKIVTAGGIDTHIH WICPQQAEEALVSGVTTMVGGGTGPAAGTHATTCTPGPWYISRMLQAADSLPVNIGLLGKGNVSQ PDALREQVAAGVIGLCIHEDWGATPAAIDCALTVADEMDIQVALHSDTLNESGFVEDTLAAIGGRTIH TFHTEGAGGGHAPDIITACAHPNILPSSTNPTLPYTLNTIDEHLDMLMVAHHLDPDIAEDVAFAESRIR RETIAAEDVLHDLGAFSLTSSDSQAMGRVGEVILRTWQVAHRMKVQRGALAEETGDNDNFRVKRYI AKYTINPALTHGIAHEVGSIEVGKLADLVVWSPAFFGVKPATVIKGGMIAIAPMGDINASIPTPQPVHY RPMFGALGSARHHCRLTFLSQAAAANGVAERLNLRSAIAVVKGCRTVQKADMVHNSLQPNITVDA OTYEVRVDGELITSEPADVLPMAORYFLF

## >DM\_train138

GHMNIESTLNSVASVKDLANEASKYEIILQKGINQVGLKQYTQVVHKLDDMLEDIQSGQANREENSE FHGILTHLEQLIKRSEAQLRVYFISILNSIKPFDPQINITKKMPFPYYEDQQLGALSWILDYFHGNSEGSII QDILVGERSKLILKCMAFLEPFAKEISTAKNAPYEKGSSGMNSYTEALLGFIANEKSLVDDLYSQYTESKP HVLSQILSPLISAYAKLFGANLKIVRSNLENFGFFSFELVESINDVKKSLRGKELQNYNLLQDCTQEVRQ VTQSLFRDAIDRIIKKANSISTIPSNNGVTEATVDTMSRLRKFSEYKNGCLGAMDNITRENWLPSNYKE KEYTLQNEALNWEDHNVLLSCFISDCIDTLAVNLERKAQIALMPNQEPDVANPNSSKNKHKQRIGFFI LMNLTLVEQIVEKSELNLMLAGEGHSRLERLKKRYISYMVSDWRDLTANLMDSVFIDSSGKKSKDKEQI KEKFRKFNEGFEDLVSKTKQYKLSDPSLKVTLKSEIISLVMPMYERFYSRYKDSFKNPRKHIKYTPDELTTV LNQLVR

### >DM\_train140

MTTAARRPAPTTAGAGWDAGVGALVNPSRRRGGTLRLVSSADVDSLDPARTYYVWVWLLQRLLNR TLMAYPTDPGPAGLVPAPDLAEGPGEVSDGGRTWTYRLRRGLRYDDGTPITSDDVRHAVQRVFAQD VLPGGPTYLIPLLDDPERPYPGPYRTDEPLRSVLTPDEHTIVFRLTRPFSDFDHLMAQPCAAPVPRRSDT

GADYGRDPRSSGPYRVARHEPDTLLHLERNPHWDRATDPIRPALPDRVELTIGLDVDVLDARLIAGEF DINLEGRGLQHAAQRRATADEVLRSHTDNPRTSFLHFVAMQPHIPPFDNVHVRRAVQYAADKILLQ DARGGPVNGGDLTTALFPPTLPAHQDLDLYPTGPDLRGDLDAARAELAAAGLPDGFRAVIGTQRGK FRLVADAVVESLARVGIELTVKELDVATYFSLGAGHPETVREHGLGLLVTDWGADFPTEYGFLAPLVD GRQIKRNGGNWNLPELDDPEVNALIDETLHTTDPAARAELWRAVERRVMEHAVLLPLVHDKTLHFR NPWVTNVYVHPAFGLYDIOAMGLAEED

### >DM\_train141

STGPVAPLPTPPNFPNDIALFQQAYQNWSKEIMLDATWVCSPKTPQDVVRLANWAHEHDYKIRPRG AMAGWTPLTVEKGANVEKVILADTMTHLNGITVNTGGPVATVTAGAGASIEAIVTELQKHDLGWAN LPAPGVLSIGGALAVNAHGAALPAVGQTTLPGHTYGSLSNLVTELTAVVWNGTTYALETYQRNDPRI TPLLTNLGRCFLTSVTMQAGPNFRQRCQSYTDIPWRELFAPKGADGRTFEKFVAESGGAEAIWYPFTE KPWMKVWTVSPTKPDSSNEVGSLGSAGSLVGKPPQAREVSGPYNYIFSDNLPEPITDMIGAINAGNP GIAPLFGPAMYEITKLGLAATNANDIWGWSKDVQFYIKATTLRLTEGGGAVVTSRANIATVINDFTEW FHERIEFYRAKGEFPLNGPVEIRCCGLDQAADVKVPSVGPPTISATRPRPDHPDWDVAIWLNVLGVPG TPGMFEFYREMEQWMRSHYNNDDATFRPEWSKGWAFGPDPYTDNDIVTNKMRATYIEGVPTTEN WDTARARYNQIDPHRVFTNGFMDKLLP

### >DM train142

YDPDQYSIEADKKFKYSVKLSDYPTLQDAASAAVDGLLIDRDYNFYGGETVDFGGKVLTIECKAKFIGD GNLIFTKLGKGSRIAGVFMESTTTPWVIKPWTDDNQWLTDAAAVVATLKQSKTDGYQPTVSDYVKFP GIETLLPPNAKGQNITSTLEIRECIGVEVHRASGLMAGFLFRGCHFCKMVDANNPSGGKDGIITFENLS GDWGKGNYVIGGRTSYGSVSSAQFLRNNGGFERDGGVIGFTSYRAGGSGVKTWQGTVGSTTSRNY NLQFRDSVVIYPVWDGFDLGADTDMNPELDRPGDYPITQYPLHQLPLNHLIDNLLVRGALGVGFGM DGKGMYVSNITVEDCAGSGAYLLTHESVFTNIAIIDTNTKDFQANQIYISGACRVNGLRLIGIRSTDGQ SLTIDAPNSTVSGITGMVDPSRINVANLAEEGLGNIRANSFGYDSAAIKLRIHKLSKTLDSGALYSHING GAGSGSAYTQLTAISGSTPDAVSLKVNHKDCRGAEIPFVPDIASDDFIKDSSCFLPYWENNSTSLKALV KKPNGELVRLTLATL

#### >DM train143

MTTANTPVRPKSAIDAVADAYTEKLIELNPSFATTLGLPGHETEYQDYSPAGAAAHAEATRLALEALA GLEPSDDVDAVTLDAMRERLGLELEIHQSGWDAADLNNIASPAQDIRAIFDLMPTDTVEHWEHIAGR AANVPGAIEGYIASLRAAKDDRKVAAARQIRIVIEQTGRYAAEDGFFAKMAADASLGDAPLPAEVQD KLDAGTSAARSAYSALGAFLRDELLPVAPEKDAVGRERYSLASRSFIGAEVDLEETYAWGVQELERLISE QEKVAGQIKPGASIEEAKSILNNDPARQIKGTDALKAWMQELSDRAVSELADVHFDIPDVMKTLECMI APTDEGGIYYTGPSDDFSRPGRMWWSVPAGEDTFTTWSETTTVFHEGVPGHHLQVATATYRRELLN NWRRNVCWVSGHGEGWALYAEQLMLELGYLKDPGDHMGMLDGQRMRAARVVFDIGVHLELPVP ERWGTGTWTPEKGFDFLKANLDISEGQLQFEFTRYLGWPGQAPSYKVGQRLWEQIRAELESREGFDL KSFHSKALNIGSVGLDVLRRALL

## >DM\_train144

MSKVPSDIEIAQAAKMKPVMELARGLGIQEDEVELYGKYKAKISLDVYRRLKDKPDGKLILVTAITPTPA GEGKTTTSVGLTDALARLGKRVMVCLREPSLGPSFGIKGGAAGGGYAQVVPMEDINLHFTGDIHAVT YAHNLLAAMVDNHLQQGNVLNIDPRTITWRRVIDLNERALRNIVIGLGGKANGVPRETGFDISVASE VMACLCLASDLMDLKERFSRKVVGYTYDGKPVTAGDLEAQGSMALLMKDAIKPNLVQTLENTPAFIH GGPFANIAHGCNSIIATKTALKLADYVVTEAGFGADLGAEKFYDVKCRYAGFKPDATVIVATVRALKM HGGVPKSDLATENLEALREGFANLEKHIENIGKFGVPAVVAINAFPTDTEAELNLLYELCAKAGAEVAL SWAKGGEGGLELARKVLQTLESRPSNFHVLYNLDLSIKDKIAKIATEIYGADGVNYTAEADKAIQRYESL GYGNLPVVMAKTQYSFSDDMTKLGRPRNFTITVREVRLSAGGRLIVPITGAIMTMPGLPKRPAACNIDI DADGVITGLF

## >DM train145

MSVSAFNRRWAAVILEALTRHGVRHICIAPGSRSTLLTLAAAENSAFIHHTHFDERGLGHLALGLAKVS

KQPVAVIVTSGTAVANLYPALIEAGLTGEKLILLTADRPPELIDCGANQAIRQPGMFASHPTHSISLPRP TQDIPARWLVSTIDHALGTLHAGGVHINCPFAEPLYGEMDDTGLSWQQRLGDWWQDDKPWLREA PRLESEKQRDWFFWRQKRGVVVAGRMSAEEGKKVALWAQTLGWPLIGDVLSQTGQPLPCADLWL GNAKATSELQQAQIVVQLGSSLTGKRLLQWQASCEPEEYWIVDDIEGRLDPAHHRGRRLIANIADWL ELHPAEKRQPWCVEIPRLAEQAMQAVIARRDAFGEAQLAHRICDYLPEQGQLFVGNSLVVRLIDALS QLPAGYPVYSNRGASGIDGLLSTAAGVQRASGKPTLAIVGDLSALYDLNALALLRQVSAPLVLIVVNN NGGQIFSLLPTPQSERERFYLMPQNVHFEHAAAMFELKYHRPQNWQELETAFADAWRTPTTTVIEM VVNDTDGAQTLQQLLAQVSHL

### >DM train146

MKRSKRFAVLAQRPVNQDGLIGEWPEEGLIAMDSPFDPVSSVKVDNGLIVELDGKRRDQFDMIDRFI ADYAINVERTEQAMRLEAVEIARMLVDIHVSREEIIAITTAITPAKAVEVMAQMNVVEMMMALQKMR ARRTPSNQCHVTNLKDNPVQIAADAAEAGIRGFSEQETTVGIARYAPFNALALLVGSQCGRPGVLTQ CSVEEATELELGMRGLTSYAETVSVYGTEAVFTDGDDTPWSKAFLASAYASRGLKMRYTSGTGSEAL MGYSESKSMLYLESRCIFITKGAGVQGLQNGAVSCIGMTGAVPSGIRAVLAENLIASMLDLEVASAND QTFSHSDIRRTARTLMQMLPGTDFIFSGYSAVPNYDNMFAGSNFDAEDFDDYNILQRDLMVDGGLR PVTEAETIAIRQKAARAIQAVFRELGLPPIADEEVEAATYAHGSNEMPPRNVVEDLSAVEEMMKRNIT GLDIVGALSRSGFEDIASNILNMLRQRVTGDYLQTSAILDRQFEVVSAVNDINDYQGPGTGYRISAER WAEIKNIPGVVOPDTIE

# >DM\_train147

ANFNVPKLGVFPVAAVFDIDNVPEDSSATGSRWLPSIYQGGNYWGGGPQALHAQVSNFDSSNRLP YNPRTENNPAGNCAFAFNPFGQYISNISSAQSVHRRIYGIDLNDEPLFSPNAASITNGGNPTMSQDT GYHNIGPINTAYKAEIFRPVNPLPMSDTAPDPETLEPGQTEPLIKSDGVYSNSGIASFIFDRPVTEPNPN WPPLPPPVIPIIYPTPALGIGAAAAYGFGYQVTVYRWEEIPVEFIADPETCPAQPTTDKVIIRTTDLNPEG SPCAYEAGIILVRQTSNPMNAVAGRLVPYVEDIAVDIFLTGKFFTLNPPLRITNNYFADDEVKENTVTIG NYTTTLSSAYYAVYKTDGYGGATCFIASGGAGISALVQLQDNSVLDVLYYSLPLSLGGSKAAIDEWVA NNCGLFPMSGGLDKTTLLEIPRRQLEAINPQDGPGQYDLFILDDSGAYASFSSFIGYPEAAYYVAGAAT FMDVENPDEIIFILRNGAGWYACEIGDALKIADDEFDSVDYFAYRGGVMFIGSARYTEGGDPLPIKYRAI IPGLP

### >DM train148

MNTSLFKQERQKYIPKLPNILKKDFNNISLVYGENTEAIQDRQALKEFFKNTYGLPIISFTEGESSLSFSKA LNIGIILSGGPAPGGHNVISGVFDAIKKFNPNSKLFGFKGGPLGLLENDKIELTESLINSYRNTGGFDIVSS GRTKIETEEHYNKALFVAKENNLNAIIIIGGDDSNTNAAILAEYFKKNGENIQVIGVPKTIDADLRNDHIE ISFGFDSATKIYSELIGNLCRDAMSTKKYWHFVKLMGRSASHVALECALKTHPNICIVSEEVLAKKKTLSE IIDEMVSVILKRSLNGDNFGVVIVPEGLIEFIPEVKSLMLELCDIFDKNEGEFKGLNIEKMKEIFVAKLSDY MKGVYLSLPLFIQFELIKSILERDPHGNFNVSRVPTEKLFIEMIQSRLNDMKKRGEYKGSFTPVDHFFGYE GRSAFPSNFDSDYCYSLGYNAVVLILNGLTGYMSCIKNLNLKPTDWIAGGVPLTMLMNMEERYGEKK PVIKKALVDLEGRPFKEFVKNRDKWALNNLYLYPGPVQYFGSSEIVDEITETLKLELFK 

# >DM train149

GSHMPVVHVIDVESGNLQSLTNAIEHLGYEVQLVKSPKDFNISGTSRLILPGVGNYGHFVDNLFNRGF EKPIREYIESGKPIMGICVGLQALFAGSVESPKSTGLNYIDFKLSRFDDSEKPVPEIGWNSCIPSENLFFGL DPYKRYYFVHSFAAILNSEKKKNLENDGWKIAKAKYGSEEFIAAVNKNNIFATQFHPEKSGKAGLNVIE NFLKQQSPPIPNYSAEEKELLMNDYSNYGLTRRIIACLDVRTNDQGDLVVTKGDQYDVREKSDGKGV RNLGKPVQLAQKYYQQGADEVTFLNITSFRDCPLKDTPMLEVLKQAAKTVFVPLTVGGGIKDIVDVD GTKIPALEVASLYFRSGADKVSIGTDAVYAAEKYYELGNRGDGTSPIETISKAYGAQAVVISVDPKRVYV NSQADTKNKVFETEYPGPNGEKYCWYQCTIKGGRESRDLGVWELTRACEALGAGEILLNCIDKDGSN SGYDLELIEHVKDAVKIPVIASSGAGVPEHFEEAFLKTRADACLGAGMFHRGEFTVNDVKEYLLEHGLK VRMDEE

>DM train151

MGDYDIPTTENLYFQGMTDLNKLVKELNDLGLTDVKEIVYNPSYEQLFEEETKPGLEGFDKGTLTTLGA VAVDTGIFTGRSPKDKYIVCDETTKDTVWWNSEAAKNDNKPMTQETWKSLRELVAKQLSGKRLFVVE GYCGASEKHRIGVRMVTEVAWQAHFVKNMFIRPTDEELKNFKADFTVLNGAKCTNPNWKEQGLNS ENFVAFNITEGIQLIGGTWYGGEMKKGMFSMMNYFLPLKGVASMHCSANVGKDGDVAIFFGLSGTG KTTLSTDPKRQLIGDDEHGWDESGVFNFEGGCYAKTINLSQENEPDIYGAIRRDALLENVVVRADGSV DFDDGSKTENTRVSYPIYHIDNIVRPVSKAGHATKVIFLTADAFGVLPPVSKLTPEQTEYYFLSGFTAKLA GTERGVTEPTPTFSACFGAAFLSLHPIQYADVLVERMKASGAEAYLVNTGWNGTGKRISIKDTRGIIDAI LDGSIEKAEMGELPIFNLAIPKALPGVDPAILDPRDTYADKAQWQVKAEDLANRFVKNFVKYTANPEA AKLVGAGPKA

# >DM\_train152

MSALLLKPHKDLPRRTVLIVVMDGLGIGPEDDYDAVHMASTPFMDAHRRDNRHFRCVRAHGTAVG LPTDADMGNSEVGHNALGAGRVALQGASLVDDAIKSGEIYTGEGYRYLHGAFSKEGSTLHLIGLLSDG GVHSRDNQIYSIIEHAVKDGAKRIRVHALYDGRDVPDGSSFRFTDELEAVLAKVRQNGCDAAIASGG GRMFVTMDRYDADWSIVERGWRAQVLGDARHFHSAKEAITTFREEDPKVTDQYYPPFIVVDEQDKP LGTIEDGDAVLCVNFRGDRVIEMTRAFEDEDFNKFDRVRVPKVRYAGMMRYDGDLGIPNNFLVPPPK LTRVSEEYLCGSGLNIFACSETQKFGHVTYFWNGNRSGKIDEKHETFKEVPSDRVQFNEKPRMQSAAI TEAAIEALKSGMYNVVRINFPNGDMVGHTGDLKATITGVEAVDESLAKLKDAVDSVNGVYIVTADHG NSDDMAQRDKKGKPMKDGNGNVLPLTSHTLSPVPVFIGGAGLDPRVAMRTDLPAAGLANVTATFI NLLGFEAPEDYEPSLIYVEK

#### >DM train153

MSDMEKPWKEEEKREVLAGHARRQAPQAVDKGPVTGDQRISVTVVLRRQRGDELEAHVERQAALA PHARVHLEREAFAASHGASLDDFAEIRKFAEAHGLTLDRAHVAAGTAVLSGPVDAVNQAFGVELRHF DHPDGSYRSYVGDVRVPASIAPLIEAVLGLDTRPVARPHFRLRRRAEGEFEARSQSAAPTAYTPLDVA QAYQFPEGLDGQGQCIAIIELGGGYDETSLAQYFASLGVSAPQVVSVSVDGATNQPTGDPNGPDGE VELDIEVAGALAPGAKIAVYFAPNTDAGFLNAITTAVHDPTHKPSIVSISWGGPEDSWAPASIAAMNR AFLDAAALGVTVLAAAGDSGSTDGEQDGLYHVDFPAASPYVLACGGTRLVASAGRIERETVWNDGP DGGSTGGGVSRIFPLPSWQERANVPPSANPGAGSGRGVPDVAGNADPATGYEVVIDGETTVIGGTA AVAPLFAALVARINOKLGKPVGYLNPTLYQLPPEVFHDITEGNNDIANRARIYOAGPGWDPCTGLGS

## PIGIRLLQALLPSASQAQP

## >DM\_train154

MKRREVLQAGMALGGLAGLGRALAQGGFTLTLVHTNDTHAHLEPVELTLSGEKTPVGGVARRVALF DRVWARAKNPLFLDAGDVFQGTLYFNQYRGLADRYFMHRLRYRAMALGNHEFDLGPGPLADFLKG ARFKVVSANVDASREPRLKGLFAPYAVVVVGGERVGIIGLTTPDTREISNPGPTVAFLDPYESAQKAVY ELLAKGVNKIVVLSHLGYGEDLKLARRLVGVQVIVGGHSHTLLGSFPHKELSPAGPYPTVVKNPEGKDV LVVQAWEWGKVVGLLEVTFDAKGELLAYKGEALLMTPEAAPEDFFAKEALLAYAQPVMALMQQVIA EAKVDLVGERAVVRRRESNLGNLITDGMLWKTRNAGTQIALQNGGGIRASIPKGPITVGKVYEVLPFG NTLVVMDLKGKEILAALENGVSQWENTAGRFLQVSGLRYAFDLSRPAGSRVVRVEVKTEKGYVPLDL EATYRVVVNNFIANGGDGFTVLKEAQGYRVDTGFSDAESFMDYLKELKVVEAGLEGRIEVLNEPKGER PAYFAYRVPGLVGV

## >DM train155

MTQVAKKILVTCALPYANGSIHLGHMLEHIQADVWVRYQRMRGHEVNFICADDAHGTPIMLKAQQ LGITPEQMIGEMSQEHQTDFAGFNISYDNYHSTHSEENRQLSELIYSRLKENGFIKNRTISQLYDPEKG MFLPDRFVKGTCPKCKSPDQYGDNCEVCGATYSPTELIEPKSVVSGATPVMRDSEHFFFDLPSFSEML QAWTRSGALQEQVANKMQEWFESGLQQWDISRDAPYFGFEIPNAPGKYFYVWLDAPIGYMGSFK NLCDKRGDSVSFDEYWKKDSTAELYHFIGKDIVYFHSLFWPAMLEGSNFRKPSNLFVHGYVTVNGAK MSKSRGTFIKASTWLNHFDADSLRYYYTAKLSSRIDDIDLNLEDFVQRVNADIVNKVVNLASRNAGFI NKRFDGVLASELADPQLYKTFTDAAEVIGEAWESREFGKAVREIMALADLANRYVDEQAPWVVAKQ EGRDADLQAICSMGINLFRVLMTYLKPVLPKLTERAEAFLNTELTWDGIQQPLLGHKVNPFKALYNRI DMROVEALVEASKEEV

### >DM train158

PTVSATPYDYIIVGAGPGGIIAADRLSEAGKKVLLLERGGPSTKQTGGTYVAPWATSSGLTKFDIPGLFE SLFTDSNPFWWCKDITVFAGCLVGGGTSVNGALYWYPNDGDFSSSVGWPSSWTNHAPYTSKLSSRL PSTDHPSTDGQRYLEQSFNVVSQLLKGQGYNQATINDNPNYKDHVFGYSAFDFLNGKRAGPVATYL QTALARPNFTFKTNVMVSNVVRNGSQILGVQTNDPTLGPNGFIPVTPKGRVILSAGAFGTSRILFQSGI GPTDMIQTVQSNPTAAAALPPQNQWINLPVGMNAQDNPSINLVFTHPSIDAYENWADVWSNPRP ADAAQYLANQSGVFAGASPKLNFWRAYSGSDGFTRYAQGTVRPGAASVNSSLPYNASQIFTITVYLS TGIQSRGRIGIDAALRGTVLTPPWLVNPVDKTVLLQALHDVVSNIGSIPGLTMITPDVTQTLEEYVDAY DPATMNSNHWVSSTTIGSSPQSAVVDSNVKVFGTNNLFIVDAGIIPHLPTGNPQGTLMSAAEQAAA KILALAGGP

### >DM train159

MHIDNIENLSDREFDYIVVGGGSAGAAVAARLSEDPAVSVALVEAGPDDRGVPEVLQLDRWMELLES GYDWDYPIEPQENGNSFMRHARAKVMGGCSSHNSCIAFWAPREDLDEWEAKYGATGWNAEAAW PLYKRLETNEDAGPDAPHHGDSGPVHLMNVPPKDPTGVALLDACEQAGIPRAKFNTGTTVVNGAN FFQINRRADGTRSSSSVSYIHPIVEQENFTLLTGLRARQLVFDADRRCTGVDIVDSAFGHTHRLTARNE VVLSTGAIDTPKLLMLSGIGPAAHLAEHGIEVLVDSPGVGEHLQDHPEGVVQFEAKQPMVAESTQW WEIGIFTPTEDGLDRPDLMMHYGSVPFDMNTLRHGYPTTENGFSLTPNVTHARSRGTVRLRSRDFRD KPMVDPRYFTDPEGHDMRVMVAGIRKAREIAAQPAMAEWTGRELSPGVEAQTDEELQDYIRKTHNT VYHPVGTVRMGAVEDEMSPLDPELRVKGVTGLRVADASVMPEHVTVNPNITVMMIGERCADLIRSA RAGETTTADAELSAALA

# >DM\_train160

ASFPHRNLTWNDINFVHTTDTHGWYSGHINQPLYHANWGDFISFTTHMRRIAHSRNQDLLLIDSGD RHDGNGLSDITSPNGLKSTPIFIKQDYDLLTIGNHELYLWENSKQEYETVVNHFQDKYVCSNVDIRLD NGLFVPLGLKYKYFTTPIRGIRVMAFGFLFDFKRFNSGTRVTPMAETIHEPWFQEALKHEVDLIIIVGHTP ISHNWGEFYQVHQYLRQFFPDTIIQYFGGHSHIRDFTVFDSLSTGLQSGRYCETVGWTSVNLDKADL NLPVRQRFSRSYIDFNTDSFKYHTNLDKEFDTAKGKLVSKLIRETRKELKLDTLIGYVKTNYYVDYVPIDH PKSIFNLLALKILKTLPKSKHEERITIINTGSIRYDLYKGPYTIDSKFIVSPFENIWVNITVPKSVATKVAAKLN

## >DM train161

MAAKEVKFNSDARDRMLKGVNILADAVKVTLGPKGRNVVIDKSFGAPRITKDGVSVAKEIELSDKFEN MGAQMVREVASRTNDEAGDGTTTATVLAQAIVREGLKAVAAGMNPMDLKRGIDVATAKVVEAIKS AARPVNDSSEVAQVGTISANGESFIGQQIAEAMQRVGNEGVITVEENKGMETEVEVVEGMQFDRGY LSPYFVTNADKMIAELEDAYILLHEKKLSSLQPMVPLLESVIQSQKPLLIVAEDVEGEALATLVVNKLRG GLKIAAVKAPGFGDRRKAMLQDIAILTGGQVISEDLGMKLENVTIDMLGRAKKVSINKDNTTIVDGAG EKAEIEARVSQIRQQIEETTSDYDREKLQERVAKLAGGVAVIRVGGMTEIEVKERKDRVDDALNATRAA VQEGIVVGGGVALVQGAKVLEGLSGANSDQDAGIAIIRRALEAPMRQIAENAGVDGAVVAGKVRES SDKAFGFNAQTEEYGDMFKFGVIDPAKVVRTALEDAASVAGLLITTEAMIAEKPEPKAPAGGMPDMG GMGGMM

### >DM\_train163

ASYFIGVDVGTGSARAGVFDLQGRMVGQASREITMFKPKADFVEQSSENIWQAVCNAVRDAVNQA DINPIQVKGLGFDATCSLVVLDKEGNPLTVSPSGRNEQNVIVWMDHRAITQAERINATKHPVLEFVG GVISPEMQTPKLLWLKQHMPNTWSNVGHLFDLPDFLTWRATKDETRSLCSTVCKWTYLGHEDRWD PSYFKLVGLADLLDNNAAKIGATVKPMGAPLGHGLSQRAASEMGLIPGTAVSVSIIDAHAGTIGILGAS GVTGENANFDRRIALIGGTSTAHMAMSRSAHFISGIWGPYYSAILPEYWLNEGGQSATGALIDHIIQS HPCYPALLEQAKNKGETIYEALNYILRQMAGEPENIAFLTNDIHMLPYFHGNRSPRANPNLTGIITGLKL STTPEDMALRYLATIQALALGTRHIIETMNQNGYNIDTMMASGGGTKNPIFVQEHANATGCAMLLPE ESEAMLLGSAMMGTVAAGVFESLPEAMAAMSRIGKTVTPQTNKIKAYYDRKYRVFHQMYHDHMRY OALMOEG

## >DM\_train164

MASWSHPQFEKGAETAVPNSSSVPGDPSSMRKKNVLLIVVDQWRADFVPHVLRADGKIDFLKTPNL DRLCREGVTFRNHVTTCVPAGPARASLLTGLYLMNHRAVQNTVPLDQRHLNLGKALRGVGYDPALI GYTTTVPDPRTTSPNDPRFRVLGDLMDGFHPVGAFEPNMEGYFGWVAQNGFDLPEHRPDIWLPEG EDAVAGATDRPSRIPKEFSDSTFFTERALTYLKGRDGKPFFLHLGYYRPHPPFVASAPYHAMYRPEDM PAPIRAANPDIEAAQHPLMKFYVDSIRRGSFFQGAEGSGATLDEAELRQMRATYCGLITEVDDCLGRV FSYLDETGQWDDTLIIFTSDHGEQLGDHHLLGKIGYNDPSFRIPLVIKDAGENARAGAIESGFTESIDVM PTILDWLGGKIPHACDGLSLLPFLSEGRPQDWRTELHYEYDFRDVYYSEPQSFLGLGMNDCSLCVIQD ERYKYVHFAALPPLFFDLRHDPNEFTNLADDPAYAALVRDYAQKALSWRLKHADRTLTHYRSGPEGL SERSH

## >DM train165

MAGOTTVDSRROPPEEVDVLVVGAGFSGLYALYRLRELGRSVHVIETAGDVGGVWYWNRYPGARC DIESIEYCYSFSEEVLOEWNWTERYASOPEILRYINFVADKFDLRSGITFHTTVTAAAFDEATNTWTVDT NHGDRIRARYLIMASGQLSVPQLPNFPGLKDFAGNLYHTGNWPHEPVDFSGQRVGVIGTGSSGIQV SPQIAKQAAELFVFQRTPHFAVPARNAPLDPEFLADLKKRYAEFREESRNTPGGTHRYQGPKSALEVS DEELVETLERYWOEGGPDILAAYRDILRDRDANERVAEFIRNKIRNTVRDPEVAERLVPKGYPFGTKRLI LEIDYYEMFNRDNVHLVDTLSAPIETITPRGVRTSEREYELDSLVLATGFDALTGALFKIDIRGVGNVALK EKWAAGPRTYLGLSTAGFPNLFFIAGPGSPSALSNMLVSIEOHVEWVTDHIAYMFKNGLTRSEAVLEK EDEWVEHVNEIADETLYPMTASWYTGANVPGKPRVFMLYVGGFHRYRQICDEVAAKGYEGFVLT 00000000000000000

# >DM\_train166

ALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVL ALREGLGLPPGDDPMLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLL WLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIARLEAEVFRLAGHPFNLNSRDQLERVLFD ELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFNQTA TATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDI HTETASWMFGVPREAVDPLMRRAAKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFOSFPKVRA

## >DM train168

MNKPIKNIVIVGGGTAGWMAASYLVRALQQQANITLIESAAIPRIGVGEATIPSLQKVFFDFLGIPERE WMPQVNGAFKAAIKFVNWRKSPDPSRDDHFYHLFGNVPNCDGVPLTHYWLRKREQGFQQPMEY ACYPQPGALDGKLAPCLSDGTRQMSHAWHFDAHLVADFLKRWAVERGVNRVVDEVVDVRLNNR GYISNLLTKEGRTLEADLFIDCSGMRGLLINQALKEPFIDMSDYLLCDSAVASAVPNDDARDGVEPYTS SIAMNSGWTWKIPMLGRFGSGYVFSSHFTSRDQATADFLKLWGLSDNQPLNQIKFRVGRNKRAWV NNCVSIGLSSCFLEPLESTGIYFIYAALYQLVKHFPDTSFDPRLSDAFNAEIVHMFDDCRDFVQAHYFTT SRDDTPFWLANRHDLRLSDAIKEKVQRYKAGLPLTTTSFDDSTYYETFDYEFKNFWLNGNYYCIFAGL GMLPDRSLPLLQHRPESIEKAEAMFASIRREAERLRTSLPTNYDYLRSLRDGDAGLSRGQRGPKLAAQE SI

### >DM\_train169

MSSQKVFGITGPVSTVGATAAENKLNDSLIQELKKEGSFETEQETANRVQVLKILQELAQRFVYEVSKK KNMSDGMARDAGGKIFTYGSYRLGVHGPGSDIDTLVVVPKHVTREDFFTVFDSLLRERKELDEIAPVP DAFVPIIKIKFSGISIDLICARLDQPQVPLSLTLSDKNLLRNLDEKDLRALNGTRVTDEILELVPKPNVFRIA LRAIKLWAQRRAVYANIFGFPGGVAWAMLVARICQLYPNACSAVILNRFFIILSEWNWPQPVILKPIED GPLQVRVWNPKIYAQDRSHRMPVITPAYPSMCATHNITESTKKVILQEFVRGVQITNDIFSNKKSWA NLFEKNDFFFRYKFYLEITAYTRGSDEQHLKWSGLVESKVRLLVMKLEVLAGIKIAHPFTKPFESSYCCPT EDDYEMIQDKYGSHKTETALNALKLVTDENKEEESIKDAPKAYLSTMYIGLDFNIENKKEKVDIHIPCTEF VNLCRSFNEDYGDHKVFNLALRFVKGYDLPDEVFDENEKRPSKKSKRKN

## >DM train170

MPSRVPKSIFYNQVGYLISGDKRFWIQAHEPQPFALRTPEGQAVFAGMTKPVGGNWYVGDFTALRV PGTYTLTVGTLEARVVIHRRAYRDVLEAMLRFFDYQLCGVVLPEDEAGPWAHGACHTSDAKVFGTER ALACPGGWHDAGDYGKYTVPAAKAVADLLLAHEYFPAALAHVRPMRSVHRAPHLPPALEVAREEIA WLLTMQDPATGGVYHKVTTPSFPPLDTRPEDDDAPLVLSPISYAATATFCAAMAHAALVYRPFDPAL SSCCADAARRAYAWLGAHEMQPFHNPDGILTGEYGDAELRDELLWASCALLRMTGDSAWARVCEP LLDLDLPWELGWADVALYGVMDYLRTPRAAVSDDVRNKVKSRLLRELDALAAMAESHPFGIPMRDD DFIWGSNMVLLNRAMAFLLAEGVGVLHPAAHTVAQRAADYLFGANPLGQCYVTGFGQRPVRHPH HRPSVADDVDHPVPGMVVGGPNRHLQDEIARAQLAGRPAMEAYIDHQDSYSTNEVAVYWNSPAV FVIAALLEARGR

## >DM\_train172

EETPVTPQPPDILLGPLFNDVQNAKLFPDQKTFADAVPNSDPLMILADYRMQQNQSGFDLRHFVNV NFTLPKEGEKYVPPEGQSLREHIDGLWPVLTRSTENTEKWDSLLPLPEPYVVPGGRFREVYYWDSYFT MLGLAESGHWDKVADMVANFAHEIDTYGHIPNGNRSYYLSRSQPPFFALMVELLAQHEGDAALKQ YLPQMQKEYAYWMDGVENLQAGQQEKRVVKLQDGTLLNRYWDDRDTPRPESWVEDIATAKSNP NRPATEIYRDLRSAAASGWDFSSRWMDNPQQLNTLRTTSIVPVDLNSLMFKMEKILARASKAAGDN AMANQYETLANARQKGIEKYLWNDQQGWYADYDLKSHKVRNQLTAAALFPLYVNAAAKDRANK MATATKTHLLQPGGLNTTSVKSGQQWDAPNGWAPLQWVATEGLQNYGQKEVAMDISWHFLTNV QHTYDREKKLVEKYDVSTTGTGGGGGGEYPLQDGFGWTNGVTLKMLDLICPKEQPCDNVPATRPTVK SATTQPSTKEAQPTP

# >DM\_train174

MAQLGKLLKEQKYDRQLRLWGDHGQEALESAHVCLINATATGTEILKNLVLPGIGSFTIIDGNQVSGE DAGNNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTS LRLADVLWNSQIPLLICRTYGLVGYMRIIIKEHPVIESHPDNALEDLRLDKPFPELREHFQSYDLDHMEK KDHSHTPWIVIIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDEENFEEAIKNVNTAL NTTQIPSSIEDIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVY REKAKKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISSM

DNPDNEIVLYLMLRAVDRFHKQQGRYPGVSNYQVEEDIGKLKSCLTGFLQEYGLSVMVKDDYVHEFC RYGAAEPHTIAAFLGGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL

## >DM train175

SHMQSRELKTVSADCKKEAIEKCAQWVVRDCRPFSAVSGSGFIDMIKFFIKVKAEYGEHVNVEELLPSP ITLSRKVTSDAKEKKALIGREIKSAVEKDGASATIDLWTDNYIKRNFLGVTLHYHENNELRDLILGLKSLD FERSTAENIYKKLKAIFSQFNVEDLSSIKFVTDRGANVVKSLANNIRINCSSHLLSNVLENSFEETPELNM PILACKNIVKYFKKANLQHRLRSSLKSECPTRWNSTYTMLRSILDNWESVIQILSEAGETQRIVHINKSII QTMVNILDGFERIFKELQTCSSPSLCFVVPSILKVKEICSPDVGDVADIAKLKVNIIKNVRIIWEENLSIWH YTAFFFYPPALHMQQEKVAQIKEFCLSKMEDLELINRMSSFNELSATQLNQSDSNSHNSIDLTSHSKDI STTSFFFPQLTQNNSREPPVCPSDEFEFYRKEIVILSEDFKVMEWWNLNSKKYPKLSKLALSLLSIPASSA ASERTFSLAGNIITEKRNRIGQQTVDSLLFLNSFYKNFCK

## >DM train177

MSSQVEHPAGGYKKLFETVEELSSPLTAHVTGRIPLWLTGSLLRCGPGLFEVGSEPFYHLFDGQALLHK FDFKEGHVTYHRRFIRTDAYVRAMTEKRIVITEFGTCAFPDPCKNIFSRFFSYFRGVEVTDNALVNIYPV GEDYYACTETNFITKVNPETLETIKQVDLCNYVSVNGATAHPHIENDGTVYNIGNCFGKNFSIAYNIVKI PPLQADKEDPISKSEIVVQFPCSDRFKPSYVHSFGLTPNYIVFVETPVKINLFKFLSSWSLWGANYMDCF ESNETMGVWLHIADKKRKKYINNKYRTSPFNLFHHINTYEDHEFLIVDLCCWKGFEFVYNYLYLANLRE NWEEVKKNARKAPQPEVRRYVLPLNIDKADTGKNLVTLPNTTATAILCSDETIWLEPEVLFSGPRQAFE FPQINYQKYGGKPYTYAYGLGLNHFVPDRLCKLNVKTKETWVWQEPDSYPSEPIFVSHPDALEEDDG VVLSVVVSPGAGOKPAYLLILNAKDLSEVARAEVEINIPVTFHGLFKKS

## >DM\_train179

MKPVKPPRINGRVPVLSAQEAVNYIPDEATLCVLGAGGGILEATTLITALADKYKQTQTPRNLSIISPTG LGDRADRGISPLAQEGLVKWALCGHWGQSPRISDLAEQNKIIAYNYPQGVLTQTLRAAAAHQPGIIS DIGIGTFVDPRQQGGKLNEVTKEDLIKLVEFDNKEYLYYKAIAPDIAFIRATTCDSEGYATFEDEVMYLD ALVIAQAVHNNGGIVMMQVQKMVKKATLHPKSVRIPGYLVDIVVVDPDQSQLYGGAPVNRFISGDF TLDDSTKLSLPLNQRKLVARRALFEMRKGAVGNVGVGIADGIGLVAREEGCADDFILTVETGPIGGITS QGIAFGANVNTRAILDMTSQFDFYHGGGLDVCYLSFAEVDQHGNVGVHKFNGKIMGTGGFIDISAT SKKIIFCGTLTAGSLKTEIADGKLNIVQEGRVKKFIRELPEITFSGKIALERGLDVRYITERAVFTLKEDGLHLI EIAPGVDLOKDILDKMDFTPVISPELKLMDERLFIDAAMGFVLPEAAH

# >DM\_train181

MDNGTDSSTSKFVPEYRRTNFKNKGRFSADELRRRRDTQQVELRKAKRDEALAKRRNFIPPTDGADS DEEDESSVSADQQFYSQLQQELPQMTQQLNSDDMQEQLSATVKFRQILSREHRPPIDVVIQAGVVP RLVEFMRENQPEMLQLEAAWALTNIASGTSAQTKVVVDADAVPLFIQLLYTGSVEVKEQAIWALGNV AGDSTDYRDYVLQCNAMEPILGLFNSNKPSLIRTATWTLSNLCRGKKPQPDWSVVSQALPTLAKLIYS MDTETLVDACWAISYLSDGPQEAIQAVIDVRIPKRLVELLSHESTLVQTPALRAVGNIVTGNDLQTQV VINAGVLPALRLLLSSPKENIKKEACWTISNITAGNTEQIQAVIDANLIPPLVKLLEVAEYKTKKEACWAI SNASSGGLQRPDIIRYLVSQGCIKPLCDLLEIADNRIIEVTLDALENILKMGEADKEARGLNINENADFIE KAGGMEKIFNCQONENDKIYEKAYKIIETYFGEEEDAVDETMAPONAGNTFG

# >DM\_train183

STQTSRVTLVGEMLPAYNEILTPEALSFLKELHENFNERRIELLQKRMKKQQKIDAGEFPKFLEETKRIRE ADWTIAKLPKDLEDRRVEITGPVDRKMVINALNSGAHLFMADFEDSNSPTWENAIEGQINLRDAVKG TISHKNENGKEYRLNSKTAVLIVRPRGWHLEEKHMQVDGKNMSGSLVDFGLYFFHNAKALLEKGSGP YFYLPKMESYLEARLWNDVFVFAQKYIGIPNGTIKATVLLETIHASFEMDEILYELKDHSAGLNCGRWD YIFSFLKAFRNHNEFLLPDRAQVTMTAPFMRAYSLKVIQTCHRRNAPAIGGMAAQIPIKNNPEANEAA FEKVRADKEREALDGHDGTWVAHPGLVPVAMEVFNHIMKTPNQIFRKREEIHVTEKDLLEVPVGTITE EGLRMNISVGIQYIASWLSGRGAAPIYNLMEDAATAEISRAQVWQWIRHEGGKLNDGRNITLELMEE LKEEELAKIEREIGKEAFKKGRFQEATTLFTNLVRNDEFVPFLTLPGYEIL

## >DM\_train184

GCDLERYPLTDLSEETFWNSESNAELALTSLYRGSLTDGVEYNPSDWWSYHGMIMMEHLSDNAFDR RGENNPFFKISSGNLTADNAFIKRYWETSYKRIGYCNRFLVGIQNSSESEKKTRMIAEARFLRATQYFYL ASYFKNVPLVENVLTGEEANNVTKTSQADILKWCVTEFTAAAADLPRFSAIPAGEAGRACKQAALAFL GRTCMLQKDWKSGAKAFHDIMELGDNAINANYQELFYPSTGTSNKENIFYIQYLENYLGTGLPQHAL SAKDGGWSLVNPAADLYESYEFKDGTPFSYDDPRYDPSNLGKDRDPRLDYTIYYNGAIFMGTEYKMS PDYSAAKKEKLDYTSEASRTGFMMRKYFEESTPINDVQSANGLTPVIRYAEVLLGYLECLVEDNQTITQ GILDETINAVRGRASVNMPPVTEVTPAKLREIVRHERRIELAMEGIRYWDIMRWGIAHEVLSQKIWGA PYPGSTQYATTTKEVDPTGNYRWYVGKRAFRNPTDYTWPIPQSEQNINPNLRD

## >DM\_train185

MADSRDPASDQMQHWKEQRAAQKADVLTTGAGNPVGDKLNVITVGPRGPLLVQDVVFTDEMAH FDRERIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGESGSADTVRDPRGFA VKFYTEDGNWDLVGNNTPIFFIRDPILFPSFIHSOKRNPOTHLKDPDMVWDFWSLRPESLHOVSFLFS DRGIPDGHRHMNGYGSHTFKLVNANGEAVYCKFHYKTDQGIKNLSVEDAARLSQEDPDYGIRDLFN AIATGKYPSWTFYIQVMTFNQAETFPFNPFDLTKVWPHKDYPLIPVGKLVLNRNPVNYFAEVEQIAFD PSNMPPGIEASPDKMLQGRLFAYPDTHRHRLGPNYLHIPVNCPYRARVANYQRDGPMCMQDNQG GAPNYYPNSFGAPEQQPSALEHSIQYSGEVRRFNTANDDNVTQVRAFYVNVLNEEQRKRLCENIAG HLKDAOIFIOKKAVKNFTEVHPDYGSHIOALLDKYNAEKPKNAIHTFVOSGSHLAAREKANL 11

# >DM train187

SQIAVRTFHDIRAALLARRELALLDVREEDPFAQAHPLFAANLPLSRLELEIHARVPRRDTPITVYDDGE GLAPVAAORLHDLGYSDVALLDGGLSGWRNAGGELFRDVNVPSKAFGELVEAERHTPSLAAEEVOA

0

>DM\_train188

MVAAPPAVGAAMPSLDFDTSVFNKEKVSLAGHEEYIVRGGRNLFPLLPEAFKGIKQIGVIGWGSQGP AQAQNLRDSLAEAKSDIVVKIGLRKGSKSFDEARAAGFTEESGTLGDIWETVSGSDLVLLLISDAAQAD NYEKIFSHMKPNSILGLSHGFLLGHLQSAGLDFPKNISVIAVCPKGMGPSVRRLYVQGKEINGAGINSS FAVHQDVDGRATDVALGWSVALGSPFTFATTLEQEYKSDIFGERGILLGAVHGIVEALFRRYTEQGMD EEMAYKNTVEGITGIISKTISKKGMLEVYNSLTEEGKKEFNKAYSASFYPCMDILYECYEDVASGSEIRSV VLAGRRFYEKEGLPAFPMGNIDQTRMWKVGEKVRSTRPENDLGPLHPFTAGVYVALMMAQIEVLRK KGHSYSEIINESVIESVDSLNPFMHARGVAFMVDNCSTTARLGSRKWAPRFDYILTQQAFVTVDKDAP INQDLISNFMSDPVHGAIEVCAELRPTVDISVPANADFVRPELROSS

AVPAVGEDFPIDYADWLPKRDPNDRRRAGILLHPTSFPGPYGIGDLGPQAFKFLDWLHLAGCSLWQV LPLVPPGKRGNEDGSPYSGQDANCGNTLLISLEELVDDGLLKMEELPEPLPTDRVNYSTISEIKDPLITK AAKRLLSSEGELKDQLENFRRDPNISSWLEDAAYFAAIDNSVNTISWYDWPEPLKNRHLAALEEVYQS EKDFIDIFIAQQFLFQRQWKKVRDYARSKGISIMGDMPIYVGYHSADVWANKKQFLLNRKGFPLIVSG VPPDAFSETGQLWGSPLYDWKAMEKDGFSWWVRRIQRATDLFDEFRIDHFRGFAGFWAVPSEEKIAI LGRWKVGPGKPLFDAILQAVGKINIIAEDLGVITEDVVQLRKSIEAPGMAVLQFAFGSDAENPHLPHN HEQNQVVYTGTHDNDTIRGWWDTLPQEEKSNVLKYLSNIEEEEISRGLIEGAVSSVARIAIIPMQDVLG LGSDSRMNIPATQFGNWSWRIPSSTSFDNLDAEAKKLRDILATYGRL

MASEVPQVVSLDPTSIPIEYNTPIHDIKVQVYDIKGGCNVEEGLTIFLVNNPGKENGPVKISSKVNDKQ VSEFLKDENMEKFNVKLGTSKHFYMFNDNKNSVAVGYVGCGSVADLSEADMKRVVLSLVTMLHDN KLSKLTVVFEINVDKNLFRFFLETLFYEYMTDERFKSTDKNVNMEYIKHLGVYINNADTYKEEVEKARVY YFGTYYASQLIAAPSNYCNPVSLSNAAVELAQKLNLEYKILGVKELEELKMGAYLSVGKGSMYPNKFIH LTYKSKGDVKKKIALVGKGITFDSGGYNLKAAPGSMIDLMKFDMSGCAAVLGCAYCVGTLKPENVEIH FLSAVCENMVSKNSYRPGDIITASNGKTIEVGNTDAEGRLTLADALVYAEKLGVDYIVDIATLTGAMLY SLGTSYAGVFGNNEELINKILQSSKTSNEPVWWLPIINEYRATLNSKYADINQISSSVKASSIVASLFLKEF VONTAWAHIDIAGVSWNFKARKPKGFGVRLLTEFVLNDAL

MPSFASLKSLVVLSLTSLSLAATVALDLHILNANLDPDGTGARSAVTAEGTTIAPLITGNIDDRFQINVID QLTDANMRRATSIHWHGFFQAGTTEMDGPAFVNQCPIIPNESFVYDFVVPGQAGTYWYHSHLSTQ YCDGLRGAFVVYDPNDPHLSLYDVDDASTVITIADWYHSLSTVLFPNPNKAPPAPDTTLINGLGRNSA NPSAGQLAVVSVQSGKRYRFRIVSTSCFPNYAFSIDGHRMTVIEVDGVSHQPLTVDSLTIFAGQRYSV VVEANQAVGNYWIRANPSNGRNGFTGGINSAIFRYQGAAVAEPTTSQNSGTALNEANLIPLINPGAP GNPVPGGADINLNLRIGRNATTADFTINGAPFIPPTVPVLLQILSGVTNPNDLLPGGAVISLPANQVIEI SIPGGGNHPFHLHGHNFDVVRTPGSSVYNYVNPVRRDVVSIGGGGDNVTFRFVTDNPGPWFLHCHI DWHLEAGLAVVFAEDIPNIPIANAISPAWDDLCPKYNANNPDSGLA

>DM\_train194

MSASSSSALPPLVPALYRWKSTGSSGRQVQRRCVGAEAIVGLEEKNRRALYDLYIATSLRNIAPASTLL TLQNLKEMFELALLDARFEHPECACTVSWDDEVPAIITYESPESNESARDWARGCIHVQPTAKSALDL WSEMEEGRAAANDNTPSKSIELFLLSDVSTDSTPIPQDATVEILFHSNHLFWDGIGCRKFVGDLFRLVG SYIGRSDSREMKKIQWGQEIKNLSPPVVDSLKLDINTLGSEFDDKCTEYTSALVANYKSRGMKFQPGL ALPRCVIHKLSADESIDIVKAVKTRLGPGFTISHLTQAAIVLALLDHLKPNDLSDDEVFISPTSVDGRRWL REDIASNFYAMCQTAAVVRIENLKSITVSHKDEKELQVRALESACRNIKKSYRQWLENPFLQALGLRV HNFEASYLHAKPIPFEGEANPLFISDGINERFIPHEIKQTATGENVLSVESIDFVVNQSLPYLAIRLDSWR DASTLNIIYNDANYTEAEVQKYLQSIVEFMLAFRL

MEVKREHWATRLGLILAMAGNAVGLGNFLRFPVQAAENGGGAFMIPYIIAFLLVGIPLMWIEWAMG RYGGAQGHGTTPAIFYLLWRNRFAKILGVFGLWIPLVVAIYYVYIESWTLGFAIKFLVGLVPEPPPNATD PDSILRPFKEFLYSYIGVPKGDEPILKPSLFAYIVFLITMFINVSILIRGISKGIERFAKIAMPTLFILAVFLVIRV FLLETPNGTAADGLNFLWTPDFEKLKDPGVWIAAVGQIFFTLSLGFGAIITYASYVRKDQDIVLSGLTAA TLNEKAEVILGGSISIPAAVAFFGVANAVAIAKAGAFNLGFITLPAIFSQTAGGTFLGFLWFFLLFFAGLTS SIAIMQPMIAFLEDELKLSRKHAVLWTAAIVFFSAHLVMFLNKSLDEMDFWAGTIGVVFFGLTELIIFFWI FGADKAWEEINRGGIIKVPRIYYYVMRYITPAFLAVLLVVWAREYIPKIMEETHWTVWITRFYIIGLFLFLT FLVFLAERRRNHESAGTLVPR

>DM\_train198

>DM train196

AEQVALSRTHVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGYA RSRLTVADIRKQSEPFFKATPEEKLKLEDFFARNSYVAGQYDDAASYQRLNSHMNALHLGSQANRLF YLALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPFGRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMV QNLMVLRFANRIFGPIWNRDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKP ASTNSDDVRDEKVKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVL

YVENERWDGVPFILRCGKALNERKAEVRLQFHDVAGDIFHQQCKRNELVIRVQPNEAVYTKMMTKK PGMFFNPEESELDLTYGNRYKNVKLPDAYERLILDVFCGSQMHFVRSDELLEAWRIFTPLLHQIELEKPK PIPYIYGSRGPTEADELMKRVGFQYEGTYKWVNPHKL

>DM train199

DPDQFGPDLIEQLAQSGKYSQDNTKGDAMIGVKQPLPKAVLRTQHDKNKEAISILDFGVIDDGVTDN YQAIQNAIDAVASLPSGGELFIPASNQAVGYIVGSTLLIPGGVNIRGVGKASQLRAKSGLTGSVLRLSY DSDTIGRYLRNIRVTGNNTCNGIDTNITAEDSVIRQVYGWVFDNVMVNEVETAYLMQGLWHSKFIA CQAGTCRVGLHFLGQCVSVSVSSCHFSRGNYSADESFGIRIQPQTYAWSSEAVRSEAIILDSETMCIGF KNAVYVHDCLDLHMEQLDLDYCGSTGVVIENVNGGFSFSNSWIAADADGTEQFTGIYFRTPTSTQS HKIVSGVHINTANKNTAANNQSIAIEQSAIFVFVSGCTLTGDEWAVNIVDINECVSFDKCIFNKPLRYL RSGGVSVTDCYLAGITEVQKPEGRYNTYRGCSGVPSVNGIINVPVAVGATSGSAAIPNPGNLTYRVRS LFGDPASSGDKVSVSGVTINVTRPSPVGVALPSMVEYLAI

>DM train200

MPIHDKSPRPQEFAAVDLGSNSFHMVIARVVDGAMQIIGRLKQRVHLADGLGPDNMLSEEAMTRGL NCLSLFAERLQGFSPASVCIVGTHTLRQALNATDFLKRAEKVIPYPIEIISGNEEARLIFMGVEHTQPEKG RKLVIDIGGGSTELVIGENFEPILVESRRMGCVSFAQLYFPGGVINKENFQRARMAAAQKLETLTWQFR IQGWNVAMGASGTIKAAHEVLMEMGEKDGIITPERLEKLVKEVLRHRNFASLSLPGLSEERKTVFVPGL AILCGVFDALAIRELRLSDGALREGVLYEMEGRFRHQDVRSRTASSLANQYHIDSEQARRVLDTTMQ MYEQWREQQPKLAHPQLEALLRWAAMLHEVGLNINHSGLHRHSAYILQNSDLPGFNQEQQLMM ATLVRYHRKAIKLDDLPRFTLFKKKQFLPLIQLLRLGVLLNNQRQATTTPPTLTLITDDSHWTLRFPHDW FSQNALVLLDLEKEQEYWEGVAGWRLKIEEESTPEIAA

>DM train201

GSPEFMHTINEEERREFIKHINSVLAGDPDVGSRVPINTETFEFFDQCKDGLILSKLINDSVPDTIDERVL

NKQRNNKPLDNFKCIENNNVVINSAKAMGGISITNIGAGDILEGREHLILGLVWQIIRRGLLGKIDITLH PELYRLLEEDETLDQFLRLPPEKILLRWFNYHLKAANWPRTVSNFSKDVSDGENYTVLLNQLAPELCSR APLQTTDVLQRAEQVLQNAEKLDCRKYLTPTAMVAGNPKLNLAFVAHLFNTHPGLEPLNEEEKPEIEP FDAEGEREARVFTLWLNSLDVTPSIHDFFNNLRDGLILLQAYDKITPNTVNWKKVNKAPASGDEMMR FKAVENCNYAVDLGKNQGFSLVGIQGADITDGSRTLTLALVWQMMRMNITKTLHSLSRGGKTLSDS DMVAWANSMAAKGGKGSQIRSFRDPSISTGVFVLDVLHGIKSEYVDYNLVTDGSTEELAIQNARLAIS IARKLGAVIFILPEDIVAVRPRLVLHFIGSLMAV

## >DM\_train202

GMPEIHQSIAQHYHERTKYDPETIASKSQRLDWAKQPVPFKEYKIGSAIDLKPYLQETPEVFVNDTNG QWWQRLSRLLFRSYGLTARMPSMGNTVYLRAAPSAGGLYPAEVYVVSRGTPLLSPGLYNYQCRTHS LIHYWESDVWQSLQEACFWHPALESTQLAIIVTAVFYRSAWRYEDRAYRRICLDTGHLLGNIELSAAIT DYRPHLIGGFIDEAVNDLLYIDPLQEGAIAVLPLADLLDIQQNISPGCTALPSATETNYPQVPDGELLKY FHHHTQISASITGKLNLPTVIQEKSLEDKYNFPFCLKISTVSAPIYWGENLSDLEITMHKRRSTRAYNGEE LTFDELKALLDFTYQPQNYIDQSLDNSPDYFDLNLIETFIAVCGVQGLEAGCYYYAPKAQELRQIRFKN FRRELHFLCLGQELGRDAAAVIFHTSDLKSAIAQYGDRVYRYLHMDAGHLGQRLNLAAIQLNLGVSGI GGFFDDQVNEVLGIPNDEAVIYITTLGRPR

# >DM\_train204

MSNDKTGKSLEQENSERDVEIRDRNYFRKLSLFDDTVIAGAEMIGTSYDVFGKYCNVGSCMNSLFDE RKINASEDNFKKVTILGKTLKVPYYIDCYSVGDLKYTNASGESIESYQSNISSKSRIKGNYLFFSASLKVDF DTDSLTDFENAFSRIQYTYDLYILKSSAEALKEFLKESVKTALDKADTEEDMNDLFNTWGSHFLSGVVM GGCAQYSSSTNKYTSNLTNSFDVVAAASFAGFIGLSARTGNSFMEDIKKFRSASNIKTHAIGGDLSRFD PFGGATSADQPSAEEIAAAKKAFEDWKASVPNAPELVNFADSNPLTGIWELCSDRTQKAKLKKHFET VWAPAESAKRRVHADYIDEIIIGINNTNTPPEGYIGLKSTKDENLNSKGNICLFMHKAKYDPNIDNKDCI TELKFITVRDKSPEGDWVKIPQDIYISPNQYLYLCYLPAKYSAEKAIKDIQLLCSSCGSSMILPYGYNDVL DERGERANATEDDNVHYLIYSAGWK

>DM\_train206

GVSKEEYKDVETAKKEKEQLGELMEPALGYVVKVPVSSFENKKVDISDIEVITNGNLDDVPYKANSSKY NYPDIKTKDSSLQYVRSGYVIDGEHSGSNEKGYVYYKGNSPAKELPVNQLLTYTGSWDFTSNANLNN EEGRPNYLNDDYYTKFIGKRVGLVSGDAKPAKHKYTSQFEVDFATKKMTGKLSDKEKTIYTVNADIRG NRFTGAATASDKNKGKGESYNFFSADSQSLEGGFYGPKAEEMAGKFVANDKSLFAVFSAKHNGSNV DTVRIIDASKIDLTNFSISELNNFGDASVLIIDGKKIKLAGSGFTNKHTIEINGKTMVAVACCSNLEYMKF GQLWQQAEGGKPENNSLFLQGERTATDKMPKGGNYKYIGTWDAQVSKENNWVATADDDRKAGY RTEFDVDFGNKNLSGKLFDKNGVNPVFTVDPKIDGNGFTGKAKTSDAGFALDSGSSRYENVKFNDVA VSGGFYGPTAAELGGOFHHKSENGSVGAVFGAKQOVKK

>DM\_train207

MFRLGTTPRATTYDPDARIGEVASRFGLPTRVLIEIVRTESFQRSLARVTSGKPVVLDLRELDSDLASWIA THARLVEPALRELVRTVAPDVEPRVRFRGLPHRFRRVERIRPMDGALISIEGVVREVRGAERLEHAIVDT GSELVAVRLHGHRLGPGLRVEILGIVRSATLDALEVHKKDPIPEVHPDPAELEEFRELADKDPLTTFARAI APLPGAEEVGKMLALQLFSCVGKNSERLHVLLAGYPVVCSEILHHVLDHLAPRGVYVDLRRTELTDLT AVLKEDRGWALRAGAAVLADGGILAVDHLEGAPEPHRWALMEAMDKGTVTVDGIALNARCAVLAA INPGEQWPSDPPIARIDLDQDFLSHFDLIAFLGVDPRPGEPEEQDTEVPSYTLLRRYLLYAIREHPAPELT EEARKRLEHWYETRREEVEERLGMGLPTLPVTRRQLESVERLAKAHARMRLSDDVEPEDVDIAAELVD WYLETAMOIPGGDEIRISSLKP

>DM\_train208

GAASEAEYGKVSKAWTLHADGSQEYRSSMELTLFTHTAMNSTYGESFIVYNPDFQTLKIHSSYTRQKD GTIVKTPDNAFVEVLPRFAADAPAYNQLKEMVVVHTGLELGATIYLDYSIITKPGYYPALDINERLQETS PVKECKVSISVPEGTPLACGLYGSPVKAVEESHDGIKEVHWTLRNIPASSREAFQPKNREASPHLVAST YPSGKAALATLDKRLKESQGYESKTFAQFLTDKSGNEQEKVNIIRDHILNNLSTCPIPMAMTGYTVRDI DTVLRSAYGTPLEIAQLLNVMLNAAGIPSEVLAVYPGHLDTDACGLAAIQTLAVKATVDGKDQYLSAS PLTNRGGLDKVVSLSGTSIEIETTPIQIKESRSVAISADQAKDGFAICVLPAISAGIDSWGMSALNSKRSN LFELPSLIREEVTYTVTPAEGMKLQTSTQEQVISKPFGKVTRTITPRGNTIEVVRTIELNKQQFTPAEYSDV RSLIHEWTNPDNRVLLFSL

#### >DM train212

MATKKATMIIEKDFKIAEIDKRIYGSFIEHLGRAVYGGIYEPGHPQADENGFRQDVIELVKELQVPIIRYPGGNFVSGYNWEDGVGPKEQRPRRLDLAWKSVETNEIGLNEFMDWAKMVGAEVNMAVNLGTRGIDAARNLVEYCNHPSGSYYSDLRIAHGYKEPHKIKTWCLGNAMDGPWQIGHKTAVEYGRIACEAAKVMKWVDPTIELVVCGSSNRNMPTFAEWEATVLDHTYDHVDYISLHQYYGNRDNDTANYLALSLEMDDFIRSVVAIADYVKAKKRSKKTIHLSFDEWNVWYHSNEADKLIEPWTVAPPLLEDIYNFEDALLVGCMLITLMKHADRVKIACLAQLVNVIAPIMTEKNGPAWKQTIYYPFMHASVYGRGVALHPVISSPKYDSKDFTDVPYLESIAVYNEEKEEVTIFAVNRDMEDALLLECDVRSFEDYRVIEHIVLEHDNVKQTNSAQSSPVVPHRNGDAQLSDRKVSATLPKLSWNVIRLGKR

# >DM\_train214

METKDLIVIGGGINGAGIAADAAGRGLSVLMLEAQDLACATSSASSKLIHGGLRYLEHYEFRLVSEALA EREVLLKMAPHIAFPMRFRLPHRPHLRPAWMIRIGLFMYDHLGKRTSLPGSTGLRFGANSVLKPEIKRG FEYSDCWVDDARLVLANAQMVVRKGGEVLTRTRATSARRENGLWIVEAEDIDTGKKYSWQARGLV NATGPWVKQFFDDGMHLPSPYGIRLIKGSHIVVPRVHTQKQAYILQNEDKRIVFVIPWMDEFSIIGTT DVEYKGDPKAVKIEESEINYLLNVYNTHFKKQLSRDDIVWTYSGVRPLCDDESDSPQAITRDYTLDIHD ENGKAPLLSVFGGKLTTYRKLAEHALEKLTPYYQGIGPAWTKESVLPGGAIEGDRDDYAARLRRRYPFL TESLARHYARTYGSNSELLLGNAGTVSDLGEDFGHEFYEAELKYLVDHEWVRRADDALWRRTKQGM WLNADQQSRVSQWLVEYTQQRLSLAS

## >DM\_train215

MVYDLIVIGGGSGGMAAARRAARHNAKVALVEKSRLGGTCVNVGCVPKKIMFNAASVHDILENSRH YGFDTKFSFNLPLLVERRDKYIQRLNNIYRQNLSKDKVDLYEGTASFLSENRILIKGTKDNNNKDNGPL NEEILEGRNILIAVGNKPVFPPVKGIENTISSDEFFNIKESKKIGIVGSGYIAVELINVIKRLGIDSYIFARGNR ILRKFDESVINVLENDMKKNNINIVTFADVVEIKKVSDKNLSIHLSDGRIYEHFDHVIYCVGRSPDTENLK LEKLNVETNNNYIVVDENQRTSVNNIYAVGDCCMVKKSKEIEDLNLLKLYNEERYLNKKENVTEDIFYN

VQLTPVAINAGRLLADRLFLKKTRKTNYKLIPTVIFSHPPIGTIGLSEEAAIQIYGKENVKIYESKFTNLFFSV YDIEPELKEKTYLKLVCVGKDELIKGLHIIGLNADEIVQGFAVALKMNATKKDFDETIPIHPTAAEEFLTLQ PWMK

>DM train216

TEKKYIVALDQGTTSSRAVVMDHDANIISVSQREFEQIYPKPGWVEHDPMEIWATQSSTLVEVLAKAD ISSDQIAAIGITNQRETTIVWEKETGKPIYNAIVWQCRRTAEICEHLKRDGLEDYIRSNTGLVIDPYFSGT KVKWILDHVEGSRERARRGELLFGTVDTWLIWKMTQGRVHVTDYTNASRTMLFNIHTLDWDDKMLE VLDIPREMLPEVRRSSEVYGQTNIDGKGGTRIPISGIAGDQQAALFGQLCVKEGMAKNTYGTGCFML MNTGEKAVKSENGLLTTIACGPTGEVNYALEGAVFMAGASIQWLRDEMKLINDAYDSEYFATKVQN TNGVYVVPAFTGLGAPYWDPYARGAIFGLTRGVNANHIIRATLESIAYQTRDVLEAMQADSGIRLHAL RVDGGAVANNFLMQFQSDILGTRVERPEVREVTALGAAYLAGLAVGFWQNLDELQEKAVIEREFRP GIETTERNYRYAGWKKAVKRAMAWEEHD

>DM train217

AFYIATFDIGTTEVKAALADRDGGLHFQRSIALETYGDGNGPVEQDAGDWYDAVQRIASSWWQSGV DARRVSAIVLSGQMQNFLPLDQDHEPLHRAVLYSDKRPLKEAEEINARHGADNLWSALENPMTAASI LPKLVFWRASFPQAFGRLRHVVLGAKDYVVLRLTGRHATDRTNASTTGLYRPKDDAWHVELLADYGF SLDLMPRLLEPGEQVGGVSALAARQTGFVSGTPVLCGLGDAGAATLGVGVLDDEDAYLHLGTTGWL ARLTQTDPVGDMPVGTIFRLAGIIAGKTLQVAPVLNAGNILQWALTLVGHRPGEDCAEYFHMAAAEV QGVTVPDGLLFVPYLHAERCPVELPAPRGALLGVTGATTRAQILLAVLEGAALSLRWCAELLGMEKVG LLKVVGGGARSEAWLRMIADNLNVSLLVKPDAHLHPLRGLAALAAVELEWSHSIQDFLREADLREPA SNILHPQPCDEGRRRRKFERFKQCVETLGRLD

>DM train220

LEPRHAMLLRCRLPGGVITTKOWOAIDKFAGENTIYGSIRLTNROTFOFHGILKKNVKPVHOMLHSVG

LDALATANDMNRNVLCTSNPYESQLHAEAYEWAKKISEHLLPRTRAYAEIWLDQEKVATTDEEPILG QTYLPRKFKTTVVIPPQNDIDLHANDMNFVAIAENGKLVGFNLLVGGGLSIEHGNKKTYARTASEFGY LPLEHTLAVAEAVVTTQRDWGNRTDRKNAKTKYTLERVGVETFKAEVERRAGIKFEPIRPYEFTGRGDR IGWVKGIDDNWHLTLFIENGRILDYPARPLKTGLLEIAKIHKGDFRITANQNLIIAGVPESEKAKIEKIAKE SGLMNAVTPQRENSMACVSFPTCPLAMAEAERFLPSFIDNIDNLMAKHGVSDEHIVMRVTGCPNGC GRAMLAEVGLVGKAPGRYNLHLGGNRIGTRIPRMYKENITEPEILASLDELIGRWAKEREAGEGFGDFT VRAGIIRPVLDPARDLWD

## >DM\_train221

MAHHHHHMASPASTNPAHDHFETFVQAQLCQDVLSSFQGLCRALGVESGGGLSQYHKIKAQLN YWSAKSLWAKLDKRASQPVYQQGQACTNTKCLVVGAGPCGLRAAVELALLGARVVLVEKRIKFSRH NVLHLWPFTIHDLRALGAKKFYGRFCTGTLDHISIRQLQLLLLKVALLLGVEIHWGVKFTGLQPPPRKGS GWRAQLQPNPPAQLASYEFDVLISAAGGKFVPEGFTIREMRGKLAIGITANFVNGRTVEETQVPEISG VARIYNQKFFQSLLKATGIDLENIVYYKDETHYFVMTAKKQCLLRLGVLRQDLSETDQLLGKANVVPEA LQRFARAAADFATHGKLGKLEFAQDARGRPDVAAFDFTSMMRAESSARVQEKHGARLLLGLVGDCL VEPFWPLGTGVARGFLAAFDAAWMVKRWAEGAGPLEVLAERESLYQLLSQTSPENMHRNVAQYGL DPATRYPNLNLRAVTPNQVQDLYDMMDKE

# >DM\_train222

GKDDDNVETGAFDPSKPVAISDFTPKEGGAYQKLLIYGENFGTDVSKVKVKIGGKDAIVINVKSTYVYC FVPSGAFSGEIEITVGEGENAVTTTASTTFSYEKKMVVGTLCGYRNNRDDQGWRDGPFDGPEGVKCC GFSDNGRLAFDPLNKDHLYICYDGHKAIQLIDLKNRMLSSPLNINTIPTNRIRSIAFNKKIEGYADEAEY MIVAIDYDGKGDESPSVYIIKRNADGTFDDRSDIQLIAAYKQCNGATIHPINGELYFNSYEKGQVFRLD LVDYFKTIKNGGSWDPIVKNNPNTFKQLFTIADPSWEFQIFIHPTGKYAYFGVINNHYFMRSDYDEIKK EFITPYNFVGGYKQSGYRDDVGTEARMNNPCQGVFVKNPDYTGEEEYDFYFVDRLNFCVRKVTPEGI VSTYAGRGASTSLADGNQWGTDDGDLREVARFRDVSGLVYDDVKEMFYVHDQVGHTIRTISMEQE ENVAGDENIPEDESTVESNE

>DM\_train223

ATSDSNMLLNYVPVYVMLPLGVVNVDNVFEDPDGLKEQLLQLRAAGVDGVMVDVWWGIIELKGPK QYDWRAYRSLLQLVQECGLTLQAIMSFHQCGGNVGDIVNIPIPQWVLDIGESNHDIFYTNRSGTRNK EYLTVGVDNEPIFHGRTAIEIYSDYMKSFRENMSDFLESGLIIDIEVGLGPAGELRYPSYPQSQGWEFPGI GEFQCYDKYLKADFKAAVARAGHPEWELPDDAGKYNDVPESTGFFKSNGTYVTEKGKFFLTWYSNKL LNHGDQILDEANKAFLGCKVKLAIKVSGIHWWYKVENHAAELTAGYYNLNDRDGYRPIARMLSRHH AILNFTCLEMRDSEQPSDAKSGPQELVQQVLSGGWREDIRVAGENALPRYDATAYNQIILNARPQGV NNNGPPKLSMFGVTYLRLSDDLLQKSNFNIFKKFVLKMHADQDYCANPQKYNHAITPLKPSAPKIPIE VLLEATKPTLPFPWLPETDMKVDG

## >DM\_train224

MTSRDGYQWTPETGLTQGVPSLGVISPPTNIEDTDKDGPWDVIVIGGGYCGLTATRDLTVAGFKTLLL EARDRIGGRSWSSNIDGYPYEMGGTWVHWHQSHVWREITRYKMHNALSPSFNFSRGVNHFQLRT NPTTSTYMTHEAEDELLRSALHKFTNVDGTNGRTVLPFPHDMFYVPEFRKYDEMSYSERIDQIRDELSL NERSSLEAFILLCSGGTLENSSFGEFLHWWAMSGYTYQGCMDCLMSYKFKDGQSAFARRFWEEAAG TGRLGYVFGCPVRSVVNERDAARVTARDGREFVAKRVVCTIPLNVLSTIQFSPALSTERISAMQAGHV SMCTKVHAEVDNKDMRSWTGIAYPFNKLCYAIGDGTTPAGNTHLVCFGNSANHIQPDEDVRETLKA VGQLAPGTFGVKRLVFHNWVKDEFAKGAWFFSRPGMVSECLQGLREKHGGVVFANSDWALGWRS FIDGAIEEGTRAARVVLEELGTKREVKARL

# >DM\_train225

MAQILPIRFQEHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADS AIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGES QPVKMFDRHSSLAGCQIINYRTDAKQKWLLLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFA QFKMEGNAEESTLFCFAVRGQAGGKLHIIEVGTPPTGNQPFPKKAVDVFFPPEAQNDFPVAMQISEK HDVVFLITKYGYIHLYDLETGTCIYMNRISGETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNV LQNPDLALRMAVRNNLAGAEELFARKFNALFAQGNYSEAAKVAANAPKGILRTPDTIRRFQSVPAQP GQTSPLLQYFGILLDQGQLNKYESLELCRPVLQQGRKQLLEKWLKEDKLECSEELGDLVKSVDPTLALS VYLRANVPNKVIQCFAE

#### >DM train226

MDYTYADDSLTLHTDMYQINMMQTYWELGRADLHAVFECYFREMPFNHGYAIFAGLERLVNYLEN LTFTESDIAYLREVEEYPEDFLTYLANFEFKCTVRSALEGDLVFNNEPLIQIEGPLAQCQLVETALLNMV NFQTLIATKAARIKSVIGDDPLLEFGTRRAQELDAAIWGTRAAYIGGADATSNVRAGKIFGIPVSGTHA HSLVQSYGNDYEAFMAYAKTHRDCVFLVDTYDTLKAGVPSAIRVAREMGDKINFLGVRIDSGDMAYI SKRVREQLDEAGFTEAKIYASNDLDENTILNLKMQKSKIDVWGVGTKLITAYDQPALGAVFKLVSIEGE DGQMKDTIKLSSNAEKVTTPGKKQVWRITRKSDKKSEGDYVTLWNEDPRQEEEIYMFHPVHTFINKY VRDFEARPVLQDIFVEGKRVYELPTLDEIKQYAKENLDSLHEEYKRDLNPQKYPVDLSTDCWNHKMN LLEKVRKDVKHLTETVNKEA

## >DM train227

TGNLVTKNSLTPDVRNGIDFKIADLSLADFGRKELRIAEHEMPGLMSLRREYAEVQPLKGARISGSLHM TVQTAVLIETLTALGAEVRWASCNIFSTQDHAAAAVVVGPHGTPDEPKGVPVFAWKGETLEEYWWA AEQMLTWPDPDKPANMILDDGGDATMLVLRGMQYEKAGVVPPAEEDDPAEWKVFLNLLRTRFETD KDKWTKIAESVKGVTEETTTGVLRLYQFAAAGDLAFPAINVNDSVTKSKFDNKYGTRHSLIDGINRGT DALIGGKKVLICGYGDVGKGCAEAMKGQGARVSVTEIDPINALQAMMEGFDVVTVEEAIGDADIVVT ATGNKDIIMLEHIKAMKDHAILGNIGHFDNEIDMAGLERSGATRVNVKPQVDLWTFGDTGRSIIVLSE GRLLNLGNATGHPSFVMSNSFANQTIAQIELWTKNDEYDNEVYRLPKHLDEKVARIHVEALGGHLTK LTKEOAEYLGVDVEGPYKPDHYRY

## >DM\_train228

MTANGTAEAVQIQFGLINCGNKYLTAEAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLG RYLAADKDGNVTCEREVPGPDCRFLIVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQTVSPAEKWS VHIAMHPQVNIYSVTRKRYAHLSARPADEIAVDRDVPWGVDSLITLAFQDQRYSVQTADHRFLRHD GRLVARPEPATGYTLEFRSGKVAFRDCEGRYLAPSGPSGTLKAGKATKVGKDELFALEQSCAQVVLQA ANERNVSTRQGMDLSANQDEETDQETFQLEIDRDTKKCAFRTHTGKYWTLTATGGVQSTASSKNAS

CYFDIEWRDRRITLRASNGKFVTSKKNGQLAASVETAGDSELFLMKLINRPIIVFRGEHGFIGCRKVTGT LDANRSSYDVFQLEFNDGAYNIKDSTGKYWTVGSDSAVTSSGDTPVDFFFEFCDYNKVAIKVGGRYL KGDHAGVLKASAETVDPASLWEY

>DM train229

GGTAYWKNPDQFTAFNTGLHALLREKSYNFFLLGEPRADIYGDNPIGGEASQGMERLPFNTINKENV GISNYGDMYKIINQINQMIAKTTETTILTEATQNYYLGEAYGMRAYLYFHLLRSWGDVVLYLDYTEGQ NLDLSNITKGVSPATEVMEQIKKDIQASENAFGSDYSFKLGRHFWSAAATQMLKGEAYLWSGRQMN GGNSDYTIAKNAFENVKKADVGLVTSSFKDIFSFENKKNKEMIFTIHNGKDEYEMWGGYYRMRLIPAQ DKMVKIYCDENGNSFVGTPDAQLNGLTQLQVRREFYFKGFRNNDTRWTTSLKAVYKKDAQGVVSYF GPITYKFQGTMLEGGSTRSFLDDFPIYRYADCLLQLAMAKVLLGEDPTEEINAVRERAYGSKYFNEHKA EIAYPNDNDPEFYTDNKWMKPDNAGALEAILKERLREFMFEGKRWYDIRLLGWDYVHQYSSAEQSR LLWPIDAGTLTNNSALKQTPGYE

>DM train231

SVTVQQPQLTLTAAVIGDGAPANGKTAITVEFTVADFEGKPLAGQEVVITTNNGALPNKITEKTDANG VARIALTNTTDGVTVVTAEVEGQRQSVDTHFVKGTIAADKSTLAAVPTSIIADGLMASTITLELKDTYG DPQAGANVAFDTTLGNMGVITDHNDGTYSAPLTSTTLGVATVTVKVDGAAFSVPSVTVNFTADPIP DAGRSSFTVSTPDILADGTMSSTLSFVPVDKNGHFISGMQGLSFTQNGVPVSISPITEQPDSYTATVVG NSVGDVTITPQVDTLILSTLQKKISLFPVPTLTGILVNGQNFATDKGFPKTIFKNATFQLQMDNDVANN TQYEWSSSFTPNVSVNDQGQVTITYQTYSEVAVTAKSKKFPSYSVSYRFYPNRWIYDGGRSLVSSLEA SRQCQGSDMSAVLESSRATNGTRAPDGTLWGEWGSLTAYSSDWQSGEYWVKKTSTDFETMNMDT GALQPGPAYLAFPLCALSI

>DM train234

LLAGASSQRSVARMDGDVIIGALFSVHHQPPAEKVPERKCGEIREQYGIQRVEAMFHTLDKINADPVL

LPNITLGSEIRDSCWHSSVALEQSIEFIRDSLISIRDEKDGINRCLPDGQSLPPGRTKKPIAGVIGPGSSSV AIQVQNLLQLFDIPQIAYSATSIDLSDKTLYKYFLRVVPSDTLQARAMLDIVKRYNWTYVSAVHTEGNY GESGMDAFKELAAQEGLSIAHSDKIYSNAGEKSFDRLLRKLRERLPKARVVVCFCEGMTVRGLLSAMR RLGVVGEFSLIGSDGWADRDEVIEGYEVEANGGITIKLQSPEVRSFDDYFLKLRLDTNTRNPWFPEFW QHRFQCRLPGHLLENPNFKRICTGNESLEENYVQDSKMGFVINAIYAMAHGLQNMHHALCPGHVG LCDAMKPIDGSKLLDFLIKSSFIGVSGEEVWFDEKGDAPGRYDIMNLQYTEANRYDYVHVGTWHEGV LNIDDYKIOMNKSG

## >DM\_train235

MKKRILAVAVTSMLLSASVFAQETVVPSRVGDLKFESDFPTQETMKNMLNEMDFQRATQAYLWGIP ASSIMEWLNVSRNDFKFEEGQMGFFNTLKQKQGIITANFTTPYVIGTWNLEKTGPLIINLPEAKMAGM MLDVHQRVLSDLSLLGPDKGKGGKYLIVPPGEKYKDLNPKGYYVIRPKTNVVYGGIRILEPDVDRVVK QVVPNITTQPYADGKLGRKIPVAQVPEIDWTHIPKDGLEYWKTIHQIIQENPVEERDRFVMAQLKFLGI EKGKPFNPTEEQKKILLEASKVGRAMAQSNDYTKRFTQPYWKGTNWKDAISVSLDQRSENYDELDER AAWFYEAITVSRGMKSTIPGFGQRYLVTYQDSDGNWLSGEHTYKLHVPANVPASNFWSTTVYDENN RLMIINDAGSPDISSRKNLKVNSDGSIDVYYGPKPVKGYENNWVQTNPGEGWFTYFRFYGPTEKMFD KSWTMGDIELVKLEHHHHHH

# >DM\_train236

RLTELREDIDAILEDPALEGAVSGVVVVDTATGEELYSRDGGEQLLPASNMKLFTAAAALEVLGADHSF GTEVAAESAPGRRGEVQDLYLVGRGDPTLSAEDLDAMAAEVAASGVRTVRGDLYADDTWFDSERLV DDWWPEDEPYAYSAQISALTVAHGERFDTGVTEVSVTPAAEGEPADVDLGAAEGYAELDNRAVTGA AGSANTLVIDRPVGTNTIAVTGSLPADAAPVTALRTVDEPAALAGHLFEEALESNGVTVKGDVGLGGV PADWQDAEVLADHTSAELSEILVPFMKFSNNGHAEMLVKSIGQETAGAGTWDAGLVGVEEALSGLG VDTAGLVLNDGSGLSRGNLVTADTVVDLLGQAGSAPWAQTWSASLPVAGESDPFVGGTLANRMR GTAAEGVVEAKTGTMSGVSALSGYVPGPEGELAFSIVNNGHSGPAPLAVQDAIAVRLAEYAGHQAPE GARMMRGPVQGSGELECSWVQAC

>DM\_train239

MSQPDATPFDYILSGGTVIDGTNAPGRLADVGVRGDRIAAVGDLSASSARRRIDVAGKVVSPGFIDSH THDDNYLLKHRDMTPKISQGVTTVVTGNCGISLAPLAHANPPAPLDLLDEGGSFRFARFSDYLEALRA APPAVNAACMVGHSTLRAAVMPDLRREATADEIQAMQALADDALASGAIGISTGAFYPPAAHASTE EIIEVCRPLITHGGVYATHMRDEGEHIVQALEETFRIGRELDVPVVISHHKVMGKLNFGRSKETLALIEAA MASQDVSLDAYPYVAGSTMLKQDRVLLAGRTLITWCKPYPELSGRDLEEIAAERGKSKYDVVPELQPA GAIYFMMDEPDVQRILAFGPTMIGSDGLPHDERPHPRLWGTFPRVLGHYSRDLGLFPLETAVWKMT GLTAAKFGLAERGQVQPGYYADLVVFDPATVADSATFEHPTERAAGIHSVYVNGAAVWEDQSFTGQ HAGRVLNRAGA

## >DM\_train241

LLSRRRTRRPGEPPLDLGSIPWLGYALDFGKDAASFLTRMKEKHGDIFTILVGGRYVTVLLDPHSYDAV VWEPRTRLDFHAYAIFLMERIFDVQLPHYSPSDEKARMKLTLLHRELQALTEAMYTNLHAVLLGDATE AGSGWHEMGLLDFSYSFLLRAGYLTLYGIEALPRTHESQAQDRVHSADVFHTFRQLDRLLPKLARGSL SVGDKDHMCSVKSRLWKLLSPARLARRAHRSKWLESYLLHLEEMGVSEEMQARALVLQLWATQGN MGPAAFWLLLFLLKNPEALAAVRGELESILWQAEQPVSQTTTLPQKVLDSTPVLDSVLSESLRLTAAPFI TREVVVDLAMPMADGREFNLRRGDRLLLFPFLSPQRDPEIYTDPEVFKYNRFLNPDGSEKKDFYKDGK RLKNYNMPWGAGHNHCLGRSYAVNSIKQFVFLVLVHLDLELINADVEIPEFDLSRYGFGLMQPEHDV PVRYRIRP

# >DM\_train242

MMNDGKQQSTFLFHDYETFGTHPALDRPAQFAAIRTDSEFNVIGEPEVFYCKPADDYLPQPGAVLIT GITPQEARAKGENEAAFAARIHSLFTVPKTCILGYNNVRFDDEVTRNIFYRNFYDPYAWSWQHDNSR WDLLDVMRACYALRPEGINWPENDDGLPSFRLEHLTKANGIEHSNAHDAMADVYATIAMAKLVKTR QPRLFDYLFTHRNKHKLMALIDVPQMKPLVHVSGMFGAWRGNTSWVAPLAWHPENRNAVIMVDL AGDISPLLELDSDTLRERLYTAKTDLGDNAAVPVKLVHINKCPVLAQANTLRPEDADRLGINRQHCLD NLKILRENPQVREKVVAIFAEAEPFTPSDNVDAQLYNGFFSDADRAAMKIVLETEPRNLPALDITFVDK RIEKLLFNYRARNFPGTLDYAEQQRWLEHRRQVFTPEFLQGYADELQMLVQQYADDKEKVALLKAL WQYADEIVEHHHHHHH

#### >DM train243

MSRLVVVSNRIAPPDEHAASAGGLAVGILGALKAAGGLWFGWSGETGNEDQPLKKVKKGNITWASF NLSEQDLDEYYNQFSNAVLWPAFHYRLDLVQFQRPAWDGYLRVNALLADKLLPLLQDDDIIWIHDY HLLPFAHELRKRGVNNRIGFFLHIPFPTPEIFNALPTYDTLLEQLCDYDLLGFQTENDRLAFLDCLSNLTR VTTRSAKSHTAWGKAFRTEVYPIGIEPKEIAKQAAGPLPPKLAQLKAELKNVQNIFSVERLDYSKGLPER FLAYEALLEKYPQHHGKIRYTQIAPTSRGDVQAYQDIRHQLENEAGRINGKYGQLGWTPLYYLNQHF DRKLLMKIFRYSDVGLVTPLRDGMNLVAKEYVAAQDPANPGVLVLSQFAGAANELTSALIVNPYDRD EVAAALDRALTMSLAERISRHAEMLDVIVKNDINHWQECFISDLKQIVPRSAESQQRDKVATFPKLAL EHHHHHH

## >DM train246

MARTGAEYIEALKTRPPNLWYKGEKVEDPTTHPVFRGIVRTMAALYDLQHDPRYREVLTYEEEGKRHG MSFLIPKTKEDLKRRGQAYKLWADQNLGMMGRSPDYLNAVVMAYAASADYFGEFAENVRNYYRYL RDQDLATTHALTNPQVNRARPPSGQPDPYIPVGVVKQTEKGIVVRGARMTATFPLADEVLIFPSTLLQ AGSEKYALAFALPTSTPGLHFVCREALVGGDSPFDHPLSSRVEEMDCLVIFDDVLVPWERVFILGNVEL CNNAYAATGALNHMAHQVVALKTAKTEAFLGVAALMAEGIGADVYGHVQEKIAEIIVYLEAMRAFW TRAEEEAKENAYGLLVPDRGALDGARNLYPRLYPRIREILEQIGASGLITLPSEKDFKGPLGPFLEKFLQG AALEAKERVALFRLAWDMTLSGFGARQELYERFFFGDPVRMYQTLYNVYNKEPYKERIRAFLKESLKVF EEVOA

## >DM\_train247

GSMGATKILMDSTHFNEIRSIIRSRSVAWDALARSEELSEIDASTAKALESILVKKNIGDGLSSSNNAHS GFKVNGKTLIPLIHLLSTSDNEDCKKSVQNLIAELLSSDKYGDDTVKFFQEDPKQLEQLFDVSLKGDFQ TVLISGFNVVSLLVQNGLHNVKLVEKLLKNNNLINILQNIEQMDTCYVCIRLLQELAVIPEYRDVIWLHE KKFMPTLFKILQRATDSQLATRIVATNSNHLGIQLQYHSLLLIWLLTFNPVFANELVQKYLSDFLDLLKL VKITIKEKVSRLCISIILQCCSTRVKQHKKVIKQLLLLGNALPTVQSLSERKYSDEELRQDISNLKEILENEY

>DM\_train249

>DM\_train250

>DM train252

GALRSLVLIGHGSHHHGESARATQQVAEALRGRGLAGHLPYDEVLEGYWQQEPGLRQVLRTVAYSD VTVVPVFLSEGYVTETVLPRELGLGHQGPVPTGGVVRVLGGRRVRYTRPLGAHPGMADAIAAQARDT LPEGTDPADVTLLLLAARPGNAALETHAQALRERGQFAGVEVVLESREALTPESHAASAVPLSEWPSR VEAGQAVLVPFLTHLGKHAAERLQQALAQAAERFPQAPPLHVGGPVGEHPAVAEVVLALAAEGRED

ERGGDIDQAHAEAWAALRHLAERGGRLGEVLLTPYGGLFELRHTLDEGRATLDLQTVVTPEGLRDLT ARDEAGRWRPIRTWRTLPRGWRAVLSPADLRLGLELLYPAVIEESYAHEHRRLHWTPWMSTARRQT GTLARVQRATPDQVDTVAAQVCASCLRTRLWAGHTLGQTIFSGVPGGLPCAEACTVLLAAVRDEVG REAMGSGD

## >DM train254

## >DM train256

# >DM\_train257

ATLDSWLSNEATVARTAILNNIGADGAWVSGADSGIVVASPSTDNPDYFYTWTRDSGLVLKTLVDLF RNGDTSLLSTIENYISAQAIVQGISNPSGDLSSGAGLGEPKFNVDETAYTGSWGRPQRDGPALRATA

MIGFGQWLLDNGYTSTATDIVWPLVRNDLSYVAQYWNQTGYDLWEEVNGSSFFTIAVQHRALVEG SAFATAVGSSCSWCDSQAPEILCYLQSFWTGSFILANFDSSRSGKDANTLLGSIHTFDPEAACDDSTF QPCSPRALANHKEVVDSFRSIYTLNDGLSDSEAVAVGRYPEDTYYNGNPWFLCTLAAAEQLYDALYQ WDKQGSLEVTDVSLDFFKALYSDAATGTYSSSSSTYSSIVDAVKTFADGFVSIVETHAASNGSMSEQY DKSDGEQLSARDLTWSYAALLTANNRRNSVVPASWGETSASSVPGTCAATSAIGTYSSVTVTSWPSI

### >DM train258

### >DM\_train259

MLSNELRQTLQKGLHDVNSDWTVPAAIINDPEVHDVERERIFGHAWVFLAHESEIPERGDYVVRYISE DQFIVCRDEGGEIRGHLNACRHRGMQVCRAEMGNTSHFRCPYHGWTYSNTGSLVGVPAGKDAYG NQLKKSDWNLRPMPNLASYKGLIFGSLDPHADSLEDYLGDLKFYLDIVLDRSDAGLQVVGAPQRWVI DANWKLGADNFVGDAYHTMMTHRSMVELGLAPPDPQFALYGEHIHTGHGHGLGIIGPPPGMPLPE FMGLPENIVEELERRLTPEQVEIFRPTAFIHGTVFPNLSIGNFLMGKDHLSAPTAFLTLRLWHPLGPDKM EVMSFFLVEKDAPDWFKDESYKSYLRTFGISGGFEQDDAENWRSITRVMGGQFAKTGELNYQMGRG VLEPDPNWTGPGEAYPLDYAEANQRNFLEYWMQLMLAESPLRDGNSNGSGTADASTPAAAKSKSP AKAEA

## >DM\_train260

### >DM train261

# >DM\_train265

>DM train266

MCYASMEMSAPIRFGTEGFRGVIAREFTFATLHRLAEAYGRHLLERGGGLVVVGHDTRFLADAFARAL SGHLAGMGLKVVLLKGPVPTPLLSFAVRHLKAAGGAMLTASHNPPQYLGVKFKDATGGPIAQEEAKA IEALVPEEARALEGAYETLDLREAYFEALKAHLDLKALSGFSGVLYHDSMGGAGAGFLKGFLRHVGLEIP VRPIREEPHPLFHGVNPEPIPKNLGVTLAVLGPETPPSFAVATDGDADRVGVVLPGGVFFNPHQVLTT LALYRFRKGHRGRAVKNFAVTWLLDRLGERLGFGVTTTPVGFKWIKEEFLKGDCFIGGEESGGVGYPE HLPERDGILTSLLLLESVAATGKDLAEQFKEVEALTGLTHAYDRLDLPLKAPLDLTPFREPRPLAGLTPKG VDTLDGVKWLYEEAWVLFRASGTEPVVRIYVEAQSPELVRALLEEARKLVEG

### >DM train267

GRPANANSGFYVSGTTLYDANGNPFVMRGINHGHAWYKDQATTAIEGIANTGANTVRIVLSDGGQ WTKDDIQTVRNLISLAEDNNLVAVLEVHDATGYDSIASLNRAVDYWIEMRSALIGKEDTVIINIANEWF GSWDGAAWADGYKQAIPRLRNAGLNNTLMIDAAGWGQFPQSIHDYGREVFNADPQRNTMFSIH MYEYAGGNASQVRTNIDRVLNQDLALVIGEFGHRHTNGDVDESTIMSYSEQRGVGWLAWSWKGN GPEWEYLDLSNDWAGNNLTAWGNTIVNGPYGLRETSKLSTVFTGGGSDGRTSPTTLYDFEESTQGW TGSSLSRGPWTVTEWSSKGNHSLKADIQMSSNSQHYLHVIQNRSLQQNSRIQATVKHANWGSVG NGMTARLYVKTGHGYTWYSGSFVPINGSSGTTLSLDLSNVQNLSQVREIGVQFQSESNSSGQTSIYID NVIVE

### >DM train268

>DM\_train270

## >DM\_train271

MAIVPFKRDPTFYPSPKMAMKAPPEDLAYVACLYTGTGINRADFIAVVDVNPKSETYSKIVHKVELPYI NDELHHFGWNACSSALCPNGKPNIERRFLIVPGLRSSRIYIIDTKPNPREPKIIKVIEPEEVKKVSGYSRLH TVHCGPDAIYISALGNEEGEGPGGILMLDHYSFEPLGKWEIDRGDQYLAYDFWWNLPNEVLVSSEWA VPNTIEDGLKLEHLKDRYGNRIHFWDLRKRKRIHSLTLGEENRMALELRPLHDPTKLMGFINMVVSLKD LSSSIWLWFYEDGKWNAEKVIEIPAEPLEGNLPEILKPFKAVPPLVTDIDISLDDKFLYLSLWGIGEVRQY DISNPFKPVLTGKVKLGGIFHRADHPAGHKLTGAPQMLEISRDGRRVYVTNSLYSTWDNQFYPEGLK GWMVKLNANPSGGLEIDKEFFVDFGEARSHQVRLSGGDASSDSYCYP

# >DM\_train274

## >DM\_train275

## >DM\_train276

# >DM\_train279

LERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACCAEGADPDCYD TRTSALSAKSCESNSPFPVHPGTAECCTKEGLERKLCMAALKHQPQEFPTYVEPTNDEICEAFRKDPKE YANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSLLTTLSNRVCSQ YAAYGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTK NSKFEDCCQEKTAMDVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMDKYTFELSRRTHLPE VFLSKVLEPTLKSLGECCDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKKKLAERLKAK LPDATPTELAKLVNKRSDFASNCCSINSPPLYCDSEIDAELKNIL

### >DM\_train280

MSLMLSHNPIVEPFALAHATIVTGDKAGTILRNMTIVVGADGRIEQVAPSIETSIPAEYHYLDGTGKIVM PGLINAHTHLFSQGKPLNPKLATPKGQRMVATFAHSPLGKPYMAATVKHNATTLLESGVTTIRTLGDV GYEVVTLRDQIDAGQILGPRILASGPLMAIPEGHGAPLIALTSGTPEEARTAVAQNLKAGVNAIKIAAT GGVTDAQEIGEAGSPQMSVEQMRAICDEAHQYGVIVGAHAQSPEGVRRSLLAGVDTIEHGSVLDDE LIGMFRHNPNALRGYSALIPTLSAGLPLTLLGQDVTGITDIQLENSKNVVGGMVSGARQAHEAGLMIG VGTDTGMTFVPQYATWRELELLVAYAGFSPAEALHAATAVNASILGVDAETGSLEVGKSADLLVLNA NPLDDLRALEHPALVIAAGHPVWRPGPKRFADIDALLDEAYAEGHHHHHH

## >DM train282

MGSSGHIEGRHMGKNVLLLGSGFVAQPVIDTLAANDDINVTVACRTLANAQALAKPSGSKAISLDVT DDSALDKVLADNDVVISLIPYTFHPNVVKSAIRTKTDVVTSSYISPALRELEPEIVKAGITVMNEIGLDPGI DHLYAVKTIDEVHRAGGKLKSFLSYCGGLPAPEDSDNPLGYKFSWSSRGVLLALRNSAKYWKDGKIET VSSEDLMATAKPYFIYPGYAFVCYPNRDSTLFKDLYHIPEAETVIRGTLRYQGFPEFVKALVDMGMLKD DANEIFSKPIAWNEALKQYLGAKSTSKEDLIASIDSKATWKDDEDRERILSGFAWLGLFSDAKITPRGNA LDTLCARLEELMQYEDNERDMVVLQHKFGIEWADGTTETRTSTLVDYGKVGGYSSMAATVGYPVAI ATKFVLDGTIKGPGLLAPYSPEINDPIMKELKDKYGIYLKEKTVA

### >DM\_train283

MSQTTTNPHVAVLAFPFSTHAAPLLAVVRRLAAAAPHAVFSFFSTSQSNASIFHDSMHTMQCNIKSY DISDGVPEGYVFAGRPQEDIELFTRAAPESFRQGMVMAVAETGRPVSCLVADAFIWFAADMAAEMG VAWLPFWTAGPNSLSTHVYIDEIREKIGVSGIQGREDELLNFIPGMSKVRFRDLQEGIVFGNLNSLFSR MLHRMGQVLPKATAVFINSFEELDDSLTNDLKSKLKTYLNIGPFNLITPPPVVPNTTGCLQWLKERKPT SVVYISFGTVTTPPPAEVVALSEALEASRVPFIWSLRDKARVHLPEGFLEKTRGYGMVVPWAPQAEVLA HEAVGAFVTHCGWNSLWESVAGGVPLICRPFFGDQRLNGRMVEDVLEIGVRIEGGVFTKSGLMSCF DQILSQEKGKKLRENLRALRETADRAVGPKGSSTENFITLVDLVSKPKDV

## >DM train284

MNYPAEPFRIKSVETVSMIPRDERLKKMQEAGYNTFLLNSKDIYIDLLTDSGTNAMSDKQWAGMMM GDEAYAGSENFYHLERTVQELFGFKHIVPTHQGRGAENLLSQLAIKPGQYVAGNMYFTTTRYHQEKN GAVFVDIVRDEAHDAGLNIAFKGDIDLKKLQKLIDEKGAENIAYICLAVTVNLAGGQPVSMANMRAV RELTEAHGIKVFYDATRCVENAYFIKEQEQGFENKSIAEIVHEMFSYADGCTMSGKKDCLVNIGGFLC MNDDEMFSSAKELVVVYEGMPSYGGLAGRDMEAMAIGLREAMQYEYIEHRVKQVRYLGDKLKAAG VPIVEPVGGHAVFLDARRFCEHLTQDEFPAQSLAASIYVETGVRSMERGIISAGRNNVTGEHHRPKLET VRLTIPRRVYTYAHMDVVADGIIKLYQHKEDIRGLKFIYEPKQLRFFTARFDYI

### >DM train286

CFAKGTNVLMADGSIECIENIEVGNKVMGKDGRPREVIKLPRGRETMYSVVQKSQHRAHKSDSSREV PELLKFTCNATHELVVRTPRSVRRLSRTIKGVEYFEVITFEMGQKKAPDGRIVELVKEVSKSYPISEGPERA NELVESYRKASNKAYFEWTIEARDLSLLGSHVRKATYQTYAPILYENDHFFDYMQKSKFHLTIEGPKVL AYLLGLWIGDGLSDRATFSVDSRDTSLMERVTEYAEKLNLCAEYKDRKEPQVAKTVNLYSKVVRGNGI RNNLNTENPLWDAIVGLGFLKDGVKNIPSFLSTDNIGTRETFLAGLIDSDGYVTDEHGIKATIKTIHTSV RDGLVSLARSLGLVVSVNAEPAKVDMNGTKHKISYAIYMSGGDVLLNVLSKCAGSKKFRPAPAAAFA RECRGFYFELQELKEDDYYGITLSDDSDHQFLLANQVVVHN

## >DM train287

GAPIHDPDFIGGIGKELIVDNASDVTSFYPSAFQEHLNFIPAPTTGSGCTRIPSFDMSATHYCYTHNVIL SGCRDHSHSHQYLALGVLRTTATGRIFFSTLRSISLDDTQNRKSCSVSATPLGCDMLCSKVTETEEEDY NSAVPTLMAHGRLGFDGQYHEKDLDVTTLFEDWVANYPGVGGGSFIDGRVWFSVYGGLKPNSPSD TVQEGKYVIYKRYNDTCPDEQDYQIRMAKSSYKPGRFGGKRIQQAILSIKVSTSLGEDPVLTVPPNTVT LMGAEGRILTVGTSHFLYQRGSSYFSPALLYPMTVSNKTATLHSPYTFNAFTRPGSIPCQASARCPNSC VTGVYTDPYPLIFYRNHTLRGVFGTMLDSEQARLNPASAVFDSTSRSRITRVSSSSTKAAYTTSTCFKVV KTNKTYCLSIAEISNTLFGEFRIVPLLVEILKNDGVREARSG

## >DM\_train289

LEDKDLRSIQEVRNLIESANKAQKELAAMSQQQIDTIVKAIADAGYGAREKLAKMAHEETGFGIWQD KVIKNVFASKHVYNYIKDMKTIGMLKEDNEKKVMEVAVPLGVVAGLIPSTNPTSTVIYKTLISIKAGNSIV FSPHPNALKAILETVRIISEAAEKAGCPKGAISCMTVPTIQGTDQLMKHKDTAVILATGGSAMVKAAYS SGTPAIGVGPGNGPAFIERSANIPRAVKHILDSKTFDNGTICASEQSVVVERVNKEAVIAEFRKQGAHF LSDAEAVQLGKFILRPNGSMNPAIVGKSVQHIANLAGLTVPADARVLIAEETKVGAKIPYSREKLAPILA FYTAETWQEACELSMDILYHEGAGHTLIIHSEDKEIIREFALKKPVSRLLVNTPGALGGIGATTNLVPALT LGCGAVGGSSSSDNIGPENLFNIRRIATGVLELEDIR

# >DM\_train290

MASLPILTVLEQSQVSPPPDTLGDKSLQLTFFDFFWLRSPPINNLFFYELPITRSQFTETVVPNIKHSLSIT LKHFYPFVGKLVVYPAPTKKPEICYVEGDSVAVTFAECNLDLNELTGNHPRNCDKFYDLVPILGESTRLS DCIKIPLFSVQVTLFPNQGIAIGITNHHCLGDASTRFCFLKAWTSIARSGNNDESFLANGTRPLYDRIIKY PMLDEAYLKRAKVESFNEDYVTQSLAGPSDKLRATFILTRAVINQLKDRVLAQLPTLEYVSSFTVACAYI WSCIAKSRNDKLQLFGFPIDRRARMKPPIPTAYFGNCVGGCAAIAKTNLLIGKEGFITAAKLIGENLHKT LTDYKDGVLKDDMESFNDLVSEGMPTTMTWVSGTPKLRFYDMDFGWGKPKKLETVSIDHNGAISIN SCKESNEDLEIGVCISATOMEDFVHIFDDGLKAYL

## >DM\_train291

MKTLSPAVITLLWRQDAAEFYFSRLSHLPWAMLLHSGYADHPYSRFDIVVAEPICTLTTFGKETVVSES EKRTTTTDDPLQVLQQVLDRADIRPTHNEDLPFQGGALGLFGYDLGRRFESLPEIAEQDIVLPDMAVG IYDWALIVDHQRHTVSLLSHNDVNARRAWLESQQFSPQEDFTLTSDWQSNMTREQYGEKFRQVQE YLHSGDCYQVNLAQRFHATYSGDEWQAFLQLNQANRAPFSAFLRLEQGAILSLSPERFILCDNSEIQT RPIKGTLPRLPDPQEDSKQAVKLANSAKDRAENLMIVDLMRNDIGRVAVAGSVKVPELFVVEPFPAV HHLVSTITAQLPEQLHASDLLRAAFPGGSITGAPKVRAMEIIDELEPQRRNAWCGSIGYLSFCGNMDT

# SITIRTLTAINGQIFCSAGGGIVADSQEEAEYQETFDKVNRILKQLEK

### >DM train293

## >DM\_train294

IIQVSPAGSMDLLSQLEVERLKKTASSDLYQLYRNCSLAVLNSGSHTDNSKELLDKYKNFDITVMRRER GIKLELANPPEHAFVDGQIIKGIQEHLFSVLRDIVYVNMHLADSQRLNLTNATHITNLVFGILRNAGALI PGATPNLVVCWGGHSINEVEYQYTREVGHELGLRELNICTGCGPGAMEGPMKGAAVGHAKQRYSE YRYLGLTEPSIIAAEPPNPIVNELVIMPDIEKRLEAFVRMAHGIIIFPGGPGTAEELLYILGIMMHPENADQ PMPIVLTGPKQSEAYFRSLDKFITDTLGEAARKHYSIAIDNPAEAARIMSNAMPLVRQHRKDKEDAYSF NWSLKIEPEFQLPFEPNHESMANLDLHLNQRPEVLAANLRRAFSGVVAGNVKAEGIREIERHGPFEM HGDPVLMKKMDQLLNDFVAQNRMKLPGGSAYEPCYKIVT

## >DM\_train296

1

RQGCEARRAHEHLIRLLLEQGKCPEDGWDESTLELFLHELAVMDSNNFLGNCGVGEREGRVASALVA RRHYRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLNVIKLAGVHSVASCFVVPMATGMSLTLCFLTL RHKRPKAKYIIWPRIDQKSCFKSMVTAGFEPVVIENVLEGDELRTDLKAVEAKIQELGPEHILCLHSTTA CFAPRVPDRLEELAVICANYDIPHVVNNAYGLQSSKCMHLIQQGARVGRIDAFVQSLDKNFMVPVG GAIIAGFNEPFIQDISKMYPGRASASPSLDVLITLLSLGCSGYRKLLKERKEMFVYLSTQLKKLAEAHNER

LLQTPHNPISLAMTLKTIDGHHDKAVTQLGSMLFTRQVSGARAVPLGNVQTVSGHTFRGFMSHADN YPCAYLNAAAAIGMKMQDVDLFIKRLDKCLNIVRKEQTRA

SKYVDRVIAEVEKKYADEPEFVQTVEEVLSSLGPVVDAHPEYEEVALLERMVIPERVIEFRVPWEDDNG KVHVNTGYRVQFNGAIGPYLGGLRFAPSVNLSIMKFLGFEQAFKDSLTTLPMGGAKGGSDFDPNGKS DREVMRFCQAFMTELYRHIGPDIDVPAGDLGVGAREIGYMYGQYRKIVGGFYNGVLTGKARSFGGSL VRPEATGYGSVYYVEAVMKHENDTLVGKTVALAGFGNVAWGAAKKLAELGAKAVTLSGPDGYIYDP EGITTEEKINYMLEMRASGRNKVQDYADKFGVQFFPGEKPWGQKVDIIMPCATQNDVDLEQAKKIV ANNVKYYIEVANMPTTNEALRFLMQQPNMVVAPSKAVNAGGVLVVGFEMSQNSERLSWTAEEVD SKLHQVMTDIHDGSAAAAERYGLGYNLVAGANIVGFQKIADAMMAQGIAW

GAADPVVVPANMEPLTIEGNRFVTLCIMIRTTPWEVSRDVKLHPRDEVDWHTLEGVRALREAFATNN PNGRLTWGFTMNALEDGRKNYREIRDYVVECQKKYGDEVTYFPGYFPAMYLPRERVNREMSEAIEIIS KMVGNGYRPQSIMGGFLSADNLRYLAEKENIHVAHAVIWSQHNIDGGGADGSPSYPFYPSTEHFCK PAQGKSDFIDCVNLDGWTMDFICARRSGQTGHGIDGYNSRRGVGPIETYKGWGLDLGHREVMHTE AIHFDKGLELNGFGWVANIWEAQMVHEFGKDLICDAMKMWVTGTKERWPDTHFVTFGEFGELWR KQYKSNDDWNYRFVERGSGLGDSYNNLEIKWFMNKEFRLALLRDWHTKNSPAYVIDFTRYDLQAHE PADPSPEKPAKDWSLINKINQKALRPQDKPVLIDKLEKEDQDLIRKYYPELLK

ASMKETNQKPYKETYGISHITRHDMLQIPEQQKNEKYQVPEFDSSTIKNISSAKGLDVWDSWPLQNA DGTVANYHGYHIVFALAGDPKNADDTSIYMFYQKVGETSIDSWKNAGRVFKDSDKFDANDSILKDQ TQEWSGSATFTSDGKIRLFYTDFSGKHYGKQTLTTAQVNVSASDSSLNINGVEDYKSIFDGDGKTYQN VQQFIDEGNYSSGDNHTLRDPHYVEDKGHKYLVFEANTGTEDGYQGEESLFNKAYYGKSTSFFRQES QKLLQSDKKRTAELANGALGMIELNDDYTLKKVMKPLIASNTVTDEIERANVFKMNGKWYLFTDSRG SKMTIDGITSNDIYMLGYVSNSLTGPYKPLNKTGLVLKMDLDPNDVTFTYSHFAVPQAKGNNVVITSY MTNRGFYADKQSTFAPSFLLNIKGKKTSVVKDSILEQGQLTVNK

MKGRLISSDPYRQQFLVERAVSFSHRQRDCSELISVLPRHALQQIDGFGGSFTEGAGVVFNSMSEKTK AQFLSLYFSAQEHNYTLARMPIQSCDFSLGNYAYVDSSADLQQGRLSFSRDEAHLIPLISGALRLNPH MKLMASPWSPPAFMKTNNDMNGGGKLRRECYADWADIIINYLLEYRRHGINVQALSVQNEPVAVK TWDSCLYSVEEETAFAVQYLRPRLARQGMDEMEIYIWDHDKDGLVDWAELAFADEANYKGINGLAF HWYTGDHFSQIQYLAQCLPDKKLLFSEGCVPMESDAGSQIRHWHTYLHDMIGNFKSGCSGFIDWNL LLNSEGGPNHQGNLCEAPIQYDAQNDVLRRNHSWYGIGHFCRYVRPGARVMLSSSYDNLLEEVGFV NPDGERVLVVYNRDVQERRCRVLDGDKEIALTLPPSGASTLLWRQESI

NAWEVNFDGLVGLTHHYAGLSFGNEASTRHRFQVSNPRLAAKQGLLKMKALADAGFPQAVIPPHE RPFIPVLRQLGFSGSDEQVLEKVARQAPHWLSSVSSASPMWVANAATIAPSADTLDGKVHLTVANL NNKFHRSLEAPVTESLLKAIFNDEEKFSVHSALPQVALLGDEGAANHNRLGGHYGEPGMQLFVYGRE EGNDTRPSRYPARQTREASEAVARLNQVNPQQVIFAQQNPDVIDQGVFHNDVIAVSNRQVLFCHQ QAFARQSQLLANLRARVNGFMAIEVPATQVSVSDTVSTYLFNSQLLSRDDGSMMLVLPQECREHAG VWGYLNELLAADNPISELKVFDLRESMANGGGPACLRLRVVLTEEERRAVNPAVMMNDTLFNALND WVDRYYRDRLTAADLADPQLLREGREALDVLSQLLNLGSVYPFOREGGGNG

>DM\_train304

MSDQPIIRRRQVKTGISDARANNAKTQSQYQPYKDAAWGFINHWYPALFTHELEEDQVQGIQICGV PIVLRRVNGKVFALKDQCLHRGVRLSEKPTCFTKSTISCWYHGFTFDLETGKLVTIVANPEDKLIGTTGV TTYPVHEVNGMIFVFVREDDFPDEDVPPLAHDLPFRFPERSEQFPHPLWPSSPSVLDDNAVVHGMH RTGFGNWRIACENGFDNAHILVHKDNTIVHAMDWVLPLGLLPTSDDCIAVVEDDDGPKGMMQWL FTDKWAPVLENQELGLKVEGLKGRHYRTSVVLPGVLMVENWPEEHVVQYEWYVPITDDTHEYWEIL VRVCPTDEDRKKFQYRYDHMYKPLCLHGFNDSDLYAREAMQNFYYDGTGWDDEQLVATDISPITW RKLASRWNRGIAKPGRGVAGAVKDTSLIFKQTADGKRPGYKVEQIKEDH

GKKAVINDSNTPLHLLQPAYQGTYGDLTPEQVKKDIDRVFAYIDKETPARVVDKNTGKVITDYTAMG DEAQLERGAFRLASYEWGVTYSALIAAAETTGDKRYTDYVQNRFRFLAEVAPHFKRVYEEKGKTDSQL LQILTPHALDDAGAVCTAMIKLRLKDESLPVDGLIQNYFDFIINKEYRLADGTFARNRPQRNTLWLDD MFMGIPAVAQMSRYDKEAKNKYLAEAVKQFLQFADRMFIPEKGLYRHGWVESSTDHPAFCWARAN GWALLTACELLDVLPEDYPQRPKVMDYFRAHVRGVTALQSGEGFWHQLLDCNDSYLETSATAIYVY CLAHAINKGWIDAIAYGPVAQLGWHAVAGKINEEGQVEGTCVGTGMAFDPAFYYYRPVNVYAAHG YGPVLWAGAEMIRLLNTQHPQMNDSAVQYYQEKQKTTAPIFAVDSE

MERVNVVGAGLAGSEAAWTLLRLGVPVRLFEMRPKRMTPAHGTDRFAEIVCSNSLGGEGETNAKGL LQAEMRRAGSLVMEAADLARVPAGGALAVDREEFSGYITERLTGHPLLEVVREEVREIPPGITVLATGP LTSEALAEALKRRFGDHFLAYYDAASPIVLYESIDLTKCFRAGRYGQSADYLNCPMTEEEYRRFHQALLE AQRHTPHDWEKLEFFEACVPVEELARRGYQTLLFGPMKPVGLVDPRTGKEPFAVVQLRQEDKAGRM WSLVGFQTGLKWPEQKRLIQMIPGLENAEIVRYGVMHRNTYLNAPRLLGETLEFREAEGLYAAGVLA GVEGYLESAATGFLAGLNAARKALGLPPVAPPEESMLGGLVRYLATANPEGFQPMYANWGLVPPVE GRMGKKEKRQAMYRRGLEAFSAWLSGLNPPLPRPEAALV

MRIDPFKLAHWMNARKYTAAQTADLAGLPLDDLRRLLGDEANEPDPAAATALAEALSVEPSQLAAD AHRNLTVVHKSAEEMHASRRPIQRDGIHFYNYYTLAAPEGRVAPVVLDILCPSDRLPALNNGHLEPAI TVNLGPGDINGRWGEEITPQTWRVLHANHGGDRWITGDSYVEPSYCPHSYSLAGDAPARIVSYTAQ SNISPLMTEANNWSTGAFEEALKALSGKVSAGSVLDLFLARRAHTRTSAAEAAGVPPADLEAALRSPA SETGLTVLRTLGRALGFDYRVLLPADDQHDGVGKTWTTIEDSRRSRRTFGTYEAASMASAAHLPDLV GSFLRVDADGRGADLIDHAENHYVVTEGRLTLEWDGPDGPASVELEPDGSAWTGPFVRHRWHGTG TVLKFGSGAHLGYODWLELTNTFEPAATLRRGRRDLAGWGYDN

MWEANELSSTNTFSHQAEMDWPSANWWQRYQDAQLNHLIEEALQHSPSLCMAMARLKGAQGF ARQAGAIRSFDLGLAASATESKVSERYQSATPPDGWNDYGTLTLNFQYDFDFWGKNRAAVVAATSE LAAAEAESVAARLMISTSIANAYAELARLYANQETVHAALQVRNKTVELLEKRYANGLETLGSVSQAK AVAASVEAELLGIQESIQLQKNALAALVGQGPDRAASIEEPHITLTSRYGLPSEAGVGLLGHRADITAA RWRAEAAAQQVGIAQAQFYPDVTLSAFIGYQAFGLDHLFDSGNDAGAIGPAIYLPLFTGGRLEGQLT SAEARYQEAVAQYNGTLVQALHEIADVVTSSQALQARINKTEQAVQQAEQALHIATNRYQGGLATY LDVLVAEESLLNNQRALVNLQSRAFSLDLALIHALGGGFETTES

AGTHDYSTALKDSIIFFDANKCGPQAGENNVFDWRGACHTTDGSDVGVDLTGGYHDAGDHVKFGL PQGYSAAILGWSLYEFKESFDATGNTTKMLQQLKYFTDYFLKSHPNSTTFYYQVGEGNADHTYWGA PEEQTGQRPSLYKADPSSPASDILSETSAALTLMYLNYKNIDSAYATKCLNAAKELYAMGKANQGVG NGQSFYQATSFGDDLAWAATWLYTATNDSTYITDAEQFITLGNTMNENKMQDKWTMCWDDMYV PAALRLAQITGKQIYKDAIEFNFNYWKTQVTTTPGGLKWLSNWGVLRYAAAESMVMLVYCKQNPD QSLLDLAKKQVDYILGDNPANMSYIIGYGSNWCIHPHHRAANGYTYANGDNAKPAKHLLTGALVGG PDQNDKFLDDANQYQYTEVALDYNAGLVGVLAGAIKFFGGTIVNPPVKK

>DM train316

PYFDNISTIAYEGPASKNPLAFKFYNPEEKVGDKTMEEHLRFSVAYWHTFTGDGSDPFGAGNMIRPW NKYSGMDLAKARVEAAFEFFEKLNIPFFCFHDVDIAPEGETLKETYKNLDIIVDMIEEYMKTSKTKLLWN TANLFTHPRFVHGAATSCNADVFAYAAAKVKKGLEIAKRLGAENYVFWGGREGYETLLNTDMKLELD NLARFLHMAVDYAKEIGFDGQFLIEPKPKEPTKHQYDFDVATALAFLQTYGLKDYFKFNIEANHATLA GHTFEHELRVARIHGMLGSVDANQGDMLLGWDTDEFPTDLYSTTLAMYEILKNGGLGRGGLNFDAK VRRGSFEPEDLFYAHIAGMDSFAVGLKVAHRLIEDRVFDEFIEERYKSYTEGIGREIVEGTADFHKLEAHA LQLGEIQNQSGRQERLKTLLNQYLLEVCAAR

## >DM\_train317

MLSTVFRRTMATGRHFIAVCQMTSDNDLEKNFQAAKNMIERAGEKKCEMVFLPECFDFIGLNKNEQI DLAMATDCEYMEKYRELARKHNIWLSLGGLHHKDPSDAAHPWNTHLIIDSDGVTRAEYNKLHLFDLE IPGKVRLMESEFSKAGTEMIPPVDTPIGRLGLSICYDVRFPELSLWNRKRGAQLLSFPSAFTLNTGLAHW ETLLRARAIENQCYVVAAAQTGAHNPKRQSYGHSMVVDPWGAVVAQCSERVDMCFAEIDLSYVDT LREMQPVFSHRRSDLYTLHINEKSSETGGLKFARFNIPADHIFYSTPHSFVFVNLKPVTDGHVLVSPKRV VPRLTDLTDAETADLFIVAKKVQAMLEKHHNVTSTTICVQDGKDAGQTVPHVHIHILPRRAGDFGDN EIYQKLASHDKEPERKPRSNEQMAEEAVVYRNLM

## >DM\_train319

MPKLVTWMNNQRVGELTKLANGAHTFKYAPEWLASRYARPLSLSLPLQRGNITSDAVFNFFDNLLP DSPIVRDRIVKRYHAKSRQPFDLLSEIGRDSVGAVTLIPEDETVTHPIMAWEKLTEARLEEVLTAYKADIP LGMIREENDFRISVAGAQEKTALLRIGNDWCIPKGITPTTHIIKLPIGEIRQPNATLDLSQSVDNEYYCLL LAKELGLNVPDAEIIKAGNVRALAVERFDRRWNAERTVLLRLPQEDMCQTFGLPSSVKYESDGGPGIA RIMAFLMGSSEALKDRYDFMKFQVFQWLIGATQGHAKNFSVFIQAGGSYRLTPFYDIISAFPVLGGTGI HISDLKLAMGLNASKGKKTAIDKIYPRHFLATAKVLRFPEVQMHEILSDFARMIPAALDNVKTSLPTDFP ENVVTAVESNVLRLHGRLSREYGSK

### >DM\_train320

MKPLSSPLQQYWQTVVERLPEPLAEESLSAQAKSVLTFSDFVQDSVIAHPEWLTELESQPPQADEWQ HYAAWLQEALCNVSDEAGLMRELRLFRRRIMVRIAWAQTLALVTEESILQQLSYLAETLIVAARDWLY DACCREWGTPCNAQGEAQPLLILGMGKLGGGELNFSSDIDLIFAWPEHGCTQGGRRELDNAQFFTR MGQRLIKVLDQPTQDGFVYRVDMRLRPFGESGPLVLSFAALEDYYQEQGRDWERYAMVKARIMGD SEGVYANELRAMLRPFVFRRYIDFSVIQSLRNMKGMIAREVRRRGLTDNIKLGAGGIREIEFIVQVFQLIR GGREPSLQSRSLLPTLSAIAELHLLSENDAEQLRVAYLFLRRLENLLQSINDEQTQTLPSDELNRARLAW AMDFADWPOLTGALTAHMTNVRRVFNELIGDDE

### >DM train322

DIAVVGIGYVGLVSATCFAELGANVRCIDTDRNKIEQLNSGTIPIYEPGLEKMIARNVKAGRLRFGTEIE

QAVPEADIIFIAVGTPAGEDGSADMSYVLDAARSIGRAMSRYILIVTKSTVPVGSYRLIRKAIQEELDKRE VLIDFDIASNPEFLKEGNAIDDFMKPDRVVVGVDSDRARELITSLYKPMLLNNFRVLFMDIASAEMTKY AANAMLATRISFMNDVANLCERVGADVSMVRLGIGSDSRIGSKFLYPGCGYGGSCFPKDVKALIRTA EDNGYRMEVLEAVERVNEKQKSILFDKFSTYYKGNVQGRCVAIWGLSFKPGTDDMREAPSLVLIEKLL EVGCRVRVYDPVAMKEAQKRLGDKVEYTTDMYDAVRGAEALFHVTEWKEFRMPDWSALSQAMAA SLVIDGRNVYELPADSDFTLLNIGNSAIES

### >DM\_train323

GRDAPAPAASQPSGCGKHNSPERKVYMDYNATTPLEPEVIQAMTKAMWEAWGNPSSPYSAGRKA KDIINAARESLAKMIGGKPQDIIFTSGGTESNNLVIHSVVKHFHANQTSKGHTGGHHSPVKGAKPHFIT SSVEHDSIRLPLEHLVEEQVAAVTFVPVSKVSGQTEVDDILAAVRPTTRLVTIMLANNETGIVMPVPEIS QRIKALNQERVAAGLPPILVHTDAAQALGKQRVDVEDLGVDFLTIVGHKFYGPRIGALYIRGLGEFTPL YPMLFGGGQERNFRPGTENTPMIAGLGKAAELVTQNCEAYEAHMRDVRDYLEERLEAEFGQKRIHL NSQFPGTQRLPNTCNFSIRGPRLQGHVVLAQCRVLMASVGAACHSDHGDQPSPVLLSYGVPFDVA RNALRLSVGRSTTRAEVDLVVQDLKQAVAQLEDQA

#### >DM\_train324

MAAGTFTAQNKVRPGVYINFKSEPQAAGTLGERGIVSMPLILSWGEPGKMITIEAGDDVFPKLGYSIM DAQLRLINEALKRAKTLLLYRLNAGTKAAVTVGNLTVTAKWGGARGNDITLVIQENIDDETKFDVSTLV DGAELDKQTVSDIAGLAANDWVIFSGTGALTETAGAPLINGSDGAVTNQAYIDYLAAVEIFDFNTIAL PSTDDALKATFTAFAKRLRDDEGKKIQVVLENYPAADYEGVISVKNGVVLADGTILTAAQATAWVAG ATAGARVNESLTYQGYDEAVDVAPRYTNAQIIAALQAGEFLFTASDNQALVEQDINTLTSFTADKGK QFAKNRVIRVLDGINNDFVRIFSKFYIGKVSNNADGRNLLKSECINYMNTLQDIDAIKNFDGQTDLTV QSGNDVDAVYIEAYAWPVDSIEKIYVRVRIK

### >DM\_train325

GAMDPSQYASSSSWTSFLKSIASFNGDLSSLSAPPFILSPISLTEFSQYWAEHPELFLEPSFINDDNYKEH CLIDPEVESPELARMLAVTKWFISTLKSQYCSRNESLGSEKKPLNPFLGELFVGKWENKEHPEFGETVLL SEOVSHHPPVTAFSIFNDKNKVKLQGYNQIKASFTKSLMLTVKQFGHTMLDIKDESYLVTPPPLHIEGIL

VASPFVELEGKSYIQSSTGLLCVIEFSGRGYFSGKKNSFKARIYKDSKDSKDKEKALYTISGQWSGSSKIIK ANKKEESRLFYDAARIPAEHLNVKPLEEQHPLESRKAWYDVAGAIKLGDFNLIAKTKTELEETQRELRKE EEAKGISWQRRWFKDFDYSVTPEEGALVPEKDDTFLKLASALNLSTKNAPSGTLVGDKEDRKEDLSSIH WRFORELWDEEKEIVL

>DM train326

STLHGISHIFSYERLSLKRVVWALCFMGSLALLALVCTNRIQYYFLYPHVTKLDEVAATRLTFPAVTFCNL NEFRFSRVTKNDLYHAGELLALLNNRYEIPDTQTADEKQLEILQDKANFRNFKPKPFNMLEFYDRAGH DIREMLLSCFFRGEQCSPEDFKVVFTRYGKCYTFNAGQDGKPRLITMKGGTGNGLEIMLDIQQDEYLP VWGETDETSFEAGIKVQIHSQDEPPLIDQLGFGVAPGFQTFVSCQEQRLIYLPPPWGDCKATTGDSEF YDTYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDNEYCVCEMPC NVTRYGKELSMVKIPSKASAKYLAKKYNKSEQYIGENILVLDIFFEALNYETIEQKKAYEVAGLLGDIGGQ MGLFIGASILTVLELFDYAYEVIKHR

>DM\_train327

MSLPGTGSGTSSGGGNTQGQDVYIIPRPFSNFGKKLSTYTKSHKFMIFGLANNVIGPTGTGTTAVNRL LTTCLAEIPWQKLPLYMNQSEFDLLPPGSRVVECNVKVIFRTNRIAFETSSTVTKQATLNQISNVQTAIG LNKLGWGINRAFTAFQSDQPMIPTATTAPKYEPVTGDTGYRGMIADYYGADSTNDTAFGNAGNYP HHQVSSFTFLQNYYCMYQQTNQGTGGWPCLAEHLQQFDSKTVNNQCLIDVTYKPKMGLIKSPLNY KIIGQPTVKGTISVGDNLVNMRGAVVTNPPEATQNVAESTHNLTRNFPADLFNIYSDIEKSQVLHKGP WGHENPQIQPSVHIGIQAVPALTTGALLINSSPLNSWTDSMGYIDVMSSCTVMEAQPTHFPFSTEAN TNPGNTIYRINLTPNSLTSAFNGLYGNGATLGNV

>DM\_train328

ADYQGKNVVIIGLGLTGLSCVDFFLARGVTPRVMDTRMTPPGLDKLPEAVERHTGSLNDEWLMAAD LIVASPGIALAHPSLSAAADAGIEIVGDIELFCREAQAPIVAITGSNGKSTVTTLVGEMAKAAGVNVGVG GNIGLPALMLLDDECELYVLELSSFQLETTSSLQAVAATILNVTEDHMDRYPFGLQQYRAAKLRIYENA KVCVVNADDALTMPIRGADERCVSFGVNMGDYHLNHQQGETWLRVKGEKVLNVKEMKLSGQHN YTNALAALALADAAGLPRASSLKALTTFTGLPHRFEVVLEHNGVRWINDSKATNVGSTEAALNGLHV

DGTLHLLLGGDGKSADFSPLARYLNGDNVRLYCFGRDGAQLAALRPEVAEQTETMEQAMRLLAPRV OPGDMVLLSPACASLDOFKNFEQRGNEFARLAKELG

### >DM train329

LNSVGQGEFGGAPFKRFLRGTRIVSGGKLKRMTREKAKQVTVAGVPMPRDAEPRHLLVNGATGTGK SVLLRELAYTGLLRGDRMVIVDPNGDMLSKFGRDKDIILNPYDQRTKGWSFFNEIRNDYDWQRYALS VVPRGKTDEAEEWASYGRLLRETAKKLALIGTPSMRELFHWTTIATFDDLRGFLEGTLAESLFAGSNEA SKALTSARFVLSDKLPEHVTMPDGDFSIRSWLEDPNGGNLFITWREDMGPALRPLISAWVDVVCTSIL SLPEEPKRRLWLFIDELASLEKLASLADALTKGRKAGLRVVAGLQSTSQLDDVYGVKEAQTLRASFRSL VVLGGSRTDPKTNEDMSLSLGEHEVERDRYSKNTGKHHSTGRALERVRERVVMPAEIANLPDLTAYV GFAGNRPIAKVPLEIKOFANROPAFVEGTI

# >DM\_train331

MAGGLSQLVAYGAQDVYLTGNPQITFFKTVYRRYTNFAIESIQQTINGSVGFGNKVSTQISRNGDLIT DIVVEFVLTKGGNGGTTYYPAEELLQDVELEIGGQRIDKHYNDWFRTYDALFRMNDDRYNYRRMTD WVNNELVGAQKRFYVPLIFFFNQTPGLALPLIALQYHEVKLYFTLASQVQGVNYNGSSAIAGAAQPT MSVWVDYIFLDTQERTRFAQLPHEYLIEQLQFTGSETATPSATTQASQNIRLNFNHPTKYLAWNFNN PTNYGQYTALANIPGACSGAGTAAATVTTPDYGNTGTYNEQLAVLDSAKIQLNGQDRFATRKGSYF NKVQPYQSIGGVTPAGVYLYSFALKPAGRQPSGTCNFSRIDNATLSLTYKTCSIDATSPAAVLGNTETV TANTATLLTALNIYAKNYNVLRIMSGMGGLAYAN

# >DM train333

MLLAQKPFWQRHLAYPHINLDTVAHSLRLTGPLDTTLLLRALHLTVSEIDLFRARFSAQGELYWHPFSP PIDYQDLSIHLEAEPLAWRQIEQDLQRSSTLIDAPITSHQVYRLSHSEHLIYTRAHHIVLDGYGMMLFE QRLSQHYQSLLSGQTPTAAFKPYQSYLEEEAAYLTSHRYWQDKQFWQGYLREAPDLTLTSATYDPQL SHAVSLSYTLNSQLNHLLLKLANANQIGWPDALVALCALYLESAEPDAPWLWLPFMNRWGSVAAN VPGLMVNSLPLLRLSAQQTSLGNYLKQSGQAIRSLYLHGRYRIEQIEQDQGLNAEQSYFMSPFINILPF ESPHFADCQTELKVLASGSAEGINFTFRGSPQHELCLDITADLASYPQSHWQSHCERFPRFFEQLLARF QOVEODVARLLAEPAALAATTSTRAIAS

#### >DM train334

MSASQKEGKLSTATISVDGKSAEMPVLSGTLGPDVIDIRKLPAQLGVFTFDPGYGETAACNSKITFIDG DKGVLLHRGYPIAQLAENASYEEVIYLLLNGELPNKAQYDTFTNTLTNHTLLHEQIRNFFNGFRRDAHP MAILCGTVGALSAFYPDANDIAIPANRDLAAMRLIAKIPTIAAWAYKYTQGEAFIYPRNDLNYAENFLS MMFARMSEPYKVNPVLARAMNRILILHADHEQNASTSTVRLAGSTGANPFACIAAGIAALWGPAHG GANEAVLKMLARIGKKENIPAFIAQVKDKNSGVKLMGFGHRVYKNFDPRAKIMQQTCHEVLTELGIK DDPLLDLAVELEKIALSDDYFVQRKLYPNVDFYSGIILKAMGIPTSMFTVLFAVARTTGWVSQWKEMIE EPGORISRPROLYIGAPORDYVPLAKR

## >DM train336

YTPVEEKENGRMIVIVAKKYEGDIKDFVDWKNQRGLRTEVKVAEDIASPVTANAIQQFVKQEYEKEGN DLTYVLLVGDHKDIPAKITPGIKSDQVYGQIVGNDHYNEVFIGRFSCESKEDLKTQIDRTIHYERNITTED KWLGQALCIASAEGGPSADNGESDIQHENVIANLLTQYGYTKIIKCYDPGVTPKNIIDAFNGGISLVNY TGHGSETAWGTSHFGTTHVKQLTNSNQLPFIFDVACVNGDFLFSMPCFAEALMRAQKDGKPTGTVA IIASTIDQYWAPPMRGQDEMNEILCEKHPNNIKRTFGGVTMNGMFAMVEKYKKDGENMLDTWTVF GDPSLLVRTLVPTEMQVTAPANISASAQTFEVACDYNGAIATLSDDGDMVGTAIVKDGKAIIKLNESIA DETNLTLTVVGYNKVTVIKDVKVEGTS

## >DM\_train337

SLMAGLPNSSNALQQWHHLFEAEGTKRSPQAQQHLQQLLRTGLPTRKHENWKYTPLEGLINSQFVS IAGEISPQQRDALALTLDSVRLVFVDGRYVPALSDATEGSGYEVSINDDRQGLPDAIQAEVFLHLTESL AQSVTHIAVKRGQRPAKPLLLMHITQGVAGEEVNTAHYRHHLDLAEGAEATVIEHFVSLNDARHFTG ARFTINVAANAHLQHIKLAFENPLSHHFAHNDLLLAEDATAFSHSFLLGGAVLRHNTSTQLNGENSTL RINSLAMPVKNEVCDTRTWLEHNKGFCNSRQLHKTIVSDKGRAVFNGLINVAQHAIKTDGQMTNN NLLMGKLAEVDTKPQLEIYADDVKCSHGATVGRIDDEQIFYLRSRGINQQDAQQMIIYAFAAELTEAL RDEGLKQQVLARIGQRLPGGAREGGSHHHHHH

>DM train338

ERTSIAVHALMGLPTGQPANGTKLDSIGLPKVDGMSFTLYRVNEIDLTTQAGWDAASKIKLEELYTNG HPTDKVTKVATKKTEGGVAKFDNLTPALYLVVQELNGAEAVVRSQPFLVAAPQTNPTGDGWLQDV HVYPKHQALSEPVKTAVDPDATQPGFSVGENVKYRVATKIPEIASNTKFEGFTVADKLPAELGKPDTN KITVTLGGKPINSTDVSVQTYQVGDRTVLSVQLAGATLQSLDQHKDQELVVEFEAPVTKQPENGQLD NQAWVLPSNPTAQWDPEESGDAALRGMPSSRVSSKFGQITIEKSFDGNTPGADRTATFQLHRCEAD GSLVKSDPPISLDGKQEFVTGQDGKAVLSGIHLGTLQLESNVMKYTDAWAGKGTEFCLVETATASGYE LLPKPVIVKLEANESTNVLVEQKVKIDNKKKN

>DM\_train339

MTQDVREPPALKYGIVLDAGSSHTSMFVYKWPADKENDTGIVGQHSSCDVQGGGISSYANDPSKA GQSLVRCLEQALRDVPRDRHASTPLYLGATAGMRLLNLTSPEATARVLEAVTQTLTQYPFDFRGARIL SGQDEGVFGWVTANYLLENFIKYGWVGRWIRPRKGTLGAMDLGGASTQITFETTSPSEDPGNEVHLR LYGQHYRVYTHSFLCYGRDQILLRLLASALQIHRFHPCWPKGYSTQVLLQEVYQSPCTMGQRPRAFN GSAIVSLSGTSNATLCRDLVSRLFNISSCPFSQCSFNGVFQPPVAGNFIAFSAFYYTVDFLTTVMGLPV GTLKQLEEATEITCNQTWTELQARVPGQKTRLADYCAVAMFIHQLLSRGYHFDERSFREVVFQKKAA DTAVGWALGYMLNLTNLIPADLPGLRKGTHF

>DM train343

MSNVFYRSSKPYPVAVRGEGVFLYDDAGRRYLDGSSGALVANIGHGRAEVGERMAAQAARLPFVHG SQFSSDVLEEYAGRLARFVGLPTFRFWAVSGGSEATESAVKLARQYHVERGEPGRFKVITRVPSYHGA SLGSLAASGMGARRELYTPLMRPEAWPKLPKPDPARNGAEDAEGLRALLEREGPETVAAFMAEPVVG ASDAALAPAPGYYERVRDICDEAGIIFIADEVMSGMGRCGSPLALSRWSGVTPDIAVLGKGLAAGYAP LAGLLAAPQVYETVMGGSGAFMHGFTYAGHPVSVAAGLSVLDIVEREDLTGAAKERGAQLLAGLQA LQARFPQMMQVRGTGLLLGVVLGDLATGQAFETPGIASRIGAAALKRGLITYPGSGAEPNGRGDHLL LGPPLSITAAEVDGLLALLAGALEDVLG

>DM\_train344

MAEFRIAQDVVARENDRRASALKEDYEALGANLARRGVDIEAVTAKVEKFFVAVPSWGVGTGGTRFA RFPGTGEPRGIFDKLDDCAVIQQLTRATPNVSLHIPWDKADPKELKARGDALGLGFDAMNSNTFSDA PGQAHSYKYGSLSHTNAATRAQAVEHNLECIEIGKAIGSKALTVWIGDGSNFPGQSNFTRAFERYLSA MAEIYKGLPDDWKLFSEHKMYEPAFYSTVVQDWGTNYLIAQTLGPKAQCLVDLGHHAPNTNIEMIV ARLIQFGKLGGFHFNDSKYGDDDLDAGAIEPYRLFLVFNELVDAEARGVKGFHPAHMIDQKHNVTDP IESLINSANEIRRAYAQALLVDRAALSGYQEDNDALMATETLKRAYRTDVEPILAEARRRTGGAVDPVA TYRASGYRARVAAERPASVAGGGGII

### >DM train345

MTTQTTPAHIAMFSIAAHGHVNPSLEVIRELVARGHRVTYAIPPVFADKVAATGPRPVLYHSTLPGPD ADPEAWGSTLLDNVEPFLNDAIQALPQLADAYADDIPDLVLHDITSYPARVLARRWGVPAVSLSPNL VAWKGYEEEVAEPMWREPRQTERGRAYYARFEAWLKENGITEHPDTFASHPPRSLVLIPKALQPHAD RVDEDVYTFVGACQGDRAEEGGWQRPAGAEKVVLVSLGSAFTKQPAFYRECVRAFGNLPGWHLVL QIGRKVTPAELGELPDNVEVHDWVPQLAILRQADLFVTHAGAGGSQEGLATATPMIAVPQAVDQFG NADMLQGLGVARKLATEEATADLLRETALALVDDPEVARRLRRIQAEMAQEGGTRRAADLIEAELPA RHERQEPVGDRPNVGDRPAGVRSDRQRSAL

# >DM\_train346

MNVLVIGRGGREHAIAWKAAQSPLVGKLYVAPGNPGIADVAELVHIDELDIEALVQFAKQQAIDLTIV GPEAPLASGIVDRFMAEGLRIFGPSQRAALIEGSKAFAKELMKKYGIPTADHAAFTSYEEAKAYIEQKGA PIVIKADGLAAGKGVTVAQTVEEALAAAKAALVDGQFGTAGSQVVIEEYLEGEEFSFMAFVNGEKVYP LAIAQDHKRAYDGDEGPNTGGMGAYSPVPQISDEMMDAALEAILRPAAKALAAEGRPFLGVLYAGL MATANGPKVIEFNARFGDPEAQVVLPRLKTDLVEAVLAVMDGKELELEWTDEAVLGVVLAAKGYPG AYERGAEIRGLDRISPDALLFHAGTKREGGAWYTNGGRVLLLAAKGETLAKAKEKAYEQLAAIDCDGL FYRRDIGRRAIERASAAYTRMKGR

## >DM\_train347

MGSDKIHHHHHHMFDPESLKKLAIEIVKKSIEAVFPDRAVKETLPKLNLDRVILVAVGKAAWRMAKAA YEVLGKKIRKGVVVTKYGHSEGPIDDFEIYEAGHPVPDENTIKTTRRVLELVDQLNENDTVLFLLSGGGS SLFELPLEGVSLEEIQKLTSALLKSGASIEEINTVRKHLSQVKGGRFAERVFPAKVVALVLSDVLGDRLDVI ASGPAWPDSSTSEDALKVLEKYGIETSESVKRAILQETPKHLSNVEIHLIGNVQKVCDEAKSLAKEKGFN AEIITTSLDCEAREAGRFIASIMKEVKFKDRPLKKPAALIFGGETVVHVKGNGIGGRNQELALSAAIALEGI EGVILCSAGTDGTDGPTDAAGGIVDGSTAKTLKAMGEDPYQYLKNNDSYNALKKSGALLITGPTGTN VNDLIIGLIV

### >DM\_train348

MAAVVLENGVLSRKLSDFGQETSYIEDNSNQNGAISLIFSLKEEVGALAKVLRLFEENDINLTHIESRPSR LNKDEYEFFTYLDKRTKPVLGSIIKSLRNDIGATVHELSRDKEKNTVPWFPRTIQELDRFANQILSYGAEL DADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYTEEEKQTWGTVFRTLKALYKTHACYEHNHI FPLLEKYCGFREDNIPQLEDVSQFLQTCTGFRLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYT PEPDICHELLGHVPLFSDRSFAQFSQEIGLASLGAPDEYIEKLATIYWFTVEFGLCKEGDSIKAYGAGLLS SFGELQYCLSDKPKLLPLELEKTACQEYSVTEFQPLYYVAESFSDAKEKVRTFAATIPRPFSVRYDPYTQR VEVLDNTOQ

### >DM\_train349

SQFDILCKTPPKVLVRQFVERFERPSGEKIASCAAELTYLCWMITHNGTAIKRATFMSYNTIISNSLSFDI VNKSLQFKYKTQKATILEASLKKLIPAWEFTIIPYNGQKHQSDITDIVSSLQLQFESSEEADKGNSHSKK MLKALLSEGESIWEITEKILNSFEYTSRFTKTKTLYQFLFLATFINCGRFSDIKNVDPKSFKLVQNKYLGVII QCLVTETKTSVSRHIYFFSARGRIDPLVYLDEFLRNSEPVLKRVNRTGNSSSNKQEYQLLKDNLVRSYN KALKKNAPYPIFAIKNGPKSHIGRHLMTSFLSMKGLTELTNVVGNFSDKRASAVARTTYTHQITAIPDH YFALVSRYYAYDPISKEMIALKDETNPIEEWQHIEQLKGSAEGSIRYPAWNGIISQEVLDYLSSYINRRIG HHHHHH

### >DM train350

MTDFYSLIPSAPKGRFDGIERAHTAEDVKRLRGSVEIKYSLAEMGANRLWKLIHEEDFVNALGALSGN

QAMQMVRAGLKAIYLSGWQVAADANTASAMYPDQSLYPANAGPELAKRINRTLQRADQIETAEGK GLSVDTWFAPIVADAEAGFGDPLDAFEIMKAYIEAGAAGVHFEDQLASEKKCGHLGGKVLIPTAAHIR NLNAARLAADVMGTPTLIVARTDAEAAKLLTSDIDERDQPFVDYEAGRTAEGFYQVKNGIEPCIARAI AYAPYCDLIWMETSKPDLAQARRFAEAVHKAHPGKLLAYNCSPSFNWKKNLDDATIAKFQRELGAM GYKFQFITLAGFHQLNYGMFELARGYKDRQMAAYSELQQAEFAAEADGYTATKHQREVGTGYFDAV SLAITGGQSSTTAMKESTETAQFKPAAE

### >DM\_train352

VDFHGYARSGIGWTGSGGEQQCFQATGAQSKYRLGNECETYAELKLGQEVWKEGDKSFYFDTNVA YSVNQQNDWESTDPAFREANVQGKNLIEWLPGSTIWAGKRFYQRHDVHMIDFYYWDISGPGAGIE NIDLGFGKLSLAATRSTEAGGSYTFSSQNIYDEVKDTANDVFDVRLAGLQTNPDGVLELGVDYGRAN TTDGYKLADGASKDGWMFTAEHTQSMLKGYNKFVVQYATDAMTTQGKGQARGSDGSSSFTEELS DGTKINYANKVINNNGNMWRILDHGAISLGDKWDLMYVGMYQNIDWDNNLGTEWWTVGVRPM YKWTPIMSTLLEVGYDNVKSQQTGDRNNQYKITLAQQWQAGDSIWSRPAIRIFATYAKWDEKWGYI KDGDNISRYAAATNSGISTNSRGDSDEWTFGAQMEIWW

#### >DM\_train353

ELDGKAPSHRNLNVQTWSTAEGAKVLFVEARELPMFDLRLIFAAGSSQDGNAPGVALLTNAMLNEG VAGKDVGAIAQGFEGLGADFGNGAYKDMAVASLRSLSAVDKREPALKLFAEVVGKPTFPADSLARIK NQMLAGFEYQKQNPGKLASLELMKRLYGTHPYAHASDGDAKSIPPITLAQLKAFHAKAYAAGNVVIA LVGDLSRSDAEAIAAQVSAALPKGPALAKIEQPAEPKASIGHIEFPSSQTSLMLAQLGIDRDDPDYAAV SLGNQILGGGGFGTRLMSEVREKRGLTYGVYSGFTPMQARGPFMINLQTRAEMSEGTLKLVQDVFAE YLKNGPTQKELDDAKRELAGSFPLSTASNADIVGQLGAMGFYNLPLSYLEDFMRQSQELTVEQVKAA MNKHLNVDKMVIVSAGPTVAQKPL

### >DM\_train354

MMEYKIVENGLTYRIGNGASVPISNTGELIKGLRNYGPYEVPSLKYNQIALIHNNQFSSLINQLKSQISS KIDEVWHIHNINISEFIYDSPHFDSIKSQVDNAIDTGVDGIMLVLPEYNTPLYYKLKSYLINSIPSQFMRY DILSNRNLTFYVDNLLVQFVSKLGGKPWILNVDPEKGSDIIIGTGATRIDNVNLFCFAMVFKKDGTML

WNEISPIVTSSEYLTYLKSTIKKVVYGFKKSNPDWDVEKLTLHVSGKRPKMKDGETKILKETVEELKKQE MVSRDVKYAILHLNETHPFWVMGDPNNRFHPYEGTKVKLSSKRYLLTLLQPYLKRNGLEMVTPIKPLS VEIVSDNWTSEEYYHNVHEILDEIYYLSKMNWRGFRSRNLPVTVNYPKLVAGIIANVNRYGGYPINPE GNRSLOTNPWFL

## >DM train355

TEAAAQPHALPADAPDIAPERDLLSKFDGLIAERQKLLDSGVTDPFAIVMEQVKSPTEAVIRGKDTILLG TYNYMGMTFDPDVIAAGKEALEKFGSGTCGSRMLNGTFHDHMEVEQALRDFYGTTGAIVFSTGYMA NLGIISTLAGKGEYVILDADSHASIYDGCQQGNAEIVRFRHNSVEDLDKRLGRLPKEPAKLVVLEGVYS MLGDIAPLKEMVAVAKKHGAMVLVDEAHSMGFFGPNGRGVYEAQGLEGQIDFVVGTFSKSVGTVG GFVVSNHPKFEAVRLACRPYIFTASLPPSVVATATTSIRKLMTAHEKRERLWSNARALHGGLKAMGFR LGTETCDSAIVAVMLEDQEQAAMMWQALLDGGLYVNMARPPATPAGTFLLRCSICAEHTPAQIQTV LGMFOAAGRAVGVIGLEHHHHHH

## >DM\_train357

GMKVTNYQGATIDPYSKGLGMVPGTSIQLTDAARLEWNLLNEDVSLPAAVLYADRVEHNLKWMQA FVAEYGVKLAPHGKTTMAPQLFRRQLETGAWGITLATAHQVRAAYHGGVSRVLMANQLVGRRNM MMVAELLSDPEFEFFCLVDSVEGVEQLGEFFKSVNKQLQVLLELGVPGGRTGVRDAAQRNAVLEAIT RYPDTLKLAGVELYEGVLKEEHEVREFLQSAVAVTRELVEQERFARAPAVLSGAGSAWYDVVAEEFVK ASETGKVEVVLRPGCYLTHDVGIYRKAQTDIFARNPVAKKMGEGLLPALQLWAYVQSIPEPDRAIIGLG KRDSAFDAGMPEPARHYRPGNEAPRDIAASEGWEIFGLMDQHAYLRIPAGADLKVGDMIAFDISHPC LTFDKWRQVLVVDPAYRVTEVIETFF

## >DM\_train358

MKNTTLYTYRDYFVIRGGKPLTGKVKISGAKNAALPIMFATILTEEPCTITNVPDLLDVRNTLLLLRELGA ELEFLNNTVFINPSINSFITNQEIIRRMRASVLSLGPLLGRFGRAVVGLPGGCSIGARPIDQHLKFFKEAG ADVEVREGYVYVNLKEKRRVHFKFDLVTVTGTENALLYLASVPEESILENIALEPEVMDLIEVLKKMGAH VKVEGRSAYVKGSENLKGFTHSVIPDRIEAGTFMVGAVLTDGEILLENARINHLRAVVEKLKLIGGEVVE ENGNLRVFRKESLRACDIETQVYPGFPTDMQAQFMALLSVAKGKSRIKENIFEHRFHHAQELNRLGA

NITVRGNTAYVEGVERLYGSEVYSTDLRASASLVLAGLVAQGETVVRDVYHLDRGYEKLEEKLKKLGA DIERVSEL

### >DM train359

GSMSFIPVAEDSDFPIQNLPYGVFSTQSNPKPRIGVAIGDQILDLSVIKHLFTGPALSKHQHVFDETTLN NFMGLGQAAWKEARASLQNLLSASQARLRDDKELRQRAFTSQASATMHLPATIGDYTDFYSSRQH ATNVGIMFRGKENALLPNWLHLPVGYHGRASSIVVSGTPIRRPMGQMRPDNSKPPVYGACRLLDME LEMAFFVGPGNRFGEPIPISKAHEHIFGMVLMNDWSARDIQQWEYVPLGPFLGKSFGTTISPWVVPM DALMPFVVPNPKQDPKPLPYLCHSQPYTFDINLSVSLKGEGMSQAATICRSNFKHMYWTMLQQLTH HSVNGCNLRPGDLLASGTISGSDPESFGSMLELSWKGTKAIDVGQGQTRTFLLDGDEVIITGHCQGD GYRVGFGOCAGKVLPALSPAGS

# >DM\_train360

MSSGVDLGTENLYFQSNAMYMAQPGHIDHIKQINAGRVYKLIDQKGPISRIDLSKESELAPASITKITRE LIDAHLIHETTVQEAISRGRPAVGLQTNNLGWQFLSMRLGRGYLTIALHELGGEVLIDTKIDIHEIDQDD VLARLLFEIEEFFQTYAAQLDRVTSIAITLPGLVNSEQGIVLQMPHYNVKNLALGPEIYKATGLPVFVAN DTRAWALAEKLFGHSQDVDNSVLISIHHGLGAGIVLDGRVLQGRHGNIGELGHIQIDPQGKRCHCG NYGCLETVASSQAIRDQVTARIQAGEPSCLATVEEISIEDICAAAADGDPLAVDVIQQLGRYLGAAIAIV INLFNPEKILIGGVINQAKSILYPSIEQCIREQSLPVYHQDLKLVESRFYKQATMPGAALIKQALYDGLLL MKVVEG

## >DM train361

### >DM train362

MRVLVRDLKAHVGQEVELLGFLHWRRDLGRIQFLLLRDRSGVVQVVTGGLKLPLPESALRVRGLVVE NAKAPGGLEVQAKEVEVLSPALEPTPVEIPKEEWRANPDTLLEYRYVTLRGEKARAPLKVQAALVRGFR RYLDRQDFTEIFTPKVVRAGAEGGSGLFGVDYFEKRAYLAQSPQLYKQIMVGVFERVYEVAPVWRME EHHTSRHLNEYLSLDVEMGFIADEEDLMRLEEALLAEMLEEALNTAGDEIRLLGATWPSFPQDIPRLTH AEAKRILKEELGYPVGQDLSEEAERLLGEYAKERWGSDWLFVTRYPRSVRPFYTYPEEDGTTRSFDLLFR GLEITSGGQRIHRYEELLESLKAKGMDPEAFHGYLEVFKYGMPPHGGFAIGAERLTQKLLGLPNVRYAR AFPRDRHRLTP

#### >DM\_train363

GSQSRSIQTFPQPDTSVINGPDRPAGIPDPAGTTVAGGGAVYTVVPHLSMPHWAAQDFAKSLQSFR LGCANLKNRQGWQDVCAQAFQTPIHSFQAKRFFERYFTPWQVAGNGSLAGTVTGYYEPVLKGDGR RTERARFPIYGIPDDFISVPLPAGLRGGKNLVRIRQTGKNSGTIDNAGGTHTADLSRFPITARTTAIKGRF EGSRFLPYHTRNQINGGALDGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSI GRYMADKGYLKLGQTSMQGIKAYMRQNPQRLAEVLGQNPSYIFFRELAGSGGDGPVGALGTPLMG EYAGAIDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGKQK TTGYVWOLLPNGMKPEYRP

# >DM\_train365

MGLPPLLSLPSNSAPRSLGRVETPPEVVDFMVSLAEAPRGGRVLEPACAHGPFLRAFREAHGTGYRFV GVEIDPKALDLPPWAEGILADFLLWEPGEAFDLILGNPPYGIVGEASKYPIHVFKAVKDLYKKAFSTWKG KYNLYGAFLEKAVRLLKPGGVLVFVVPATWLVLEDFALLREFLAREGKTSVYYLGEVFPQKKVSAVVIRF QKSGKGLSLWDTQESESGFTPILWAEYPHWEGEIIRFETEETRKLEISGMPLGDLFHIRFAARSPEFKKHP AVRKEPGPGLVPVLTGRNLKPGWVDYEKNHSGLWMPKERAKELRDFYATPHLVVAHTKGTRVVAA WDERAYPWREEFHLLPKEGVRLDPSSLVQWLNSEAMQKHVRTLYRDFVPHLTLRMLERLPVRREYGF HTSPESARNF

>DM train367

MGSDKIHHHHHHMKEKVVLAYSGGLDTSVILKWLCEKGFDVIAYVANVGQKDDFVAIKEKALKTGAS KVYVEDLRREFVTDYIFTALLGNAMYEGRYLLGTAIARPLIAKRQVEIAEKEGAQYVAHGATGKGNDQ VRFELTYAALNPNLKVISPWKDPEFLAKFKGRTDLINYAMEKGIPIKVSKKRPYSEDENLMHISHEAGKL EDPAHIPDEDVFTWTVSPKDAPDEETLLEIHFENGIPVKVVNLKDGTEKTDPLELFEYLNEVGAKNGVG RLDMVENRFIGIKSRGVYETPGATILWIAHRDLEGITMDKEVMHLRDMLAPKFAELIYNGFWFSPEME FLLAAFRKAQENVTGKVTVSIYKGNVMPVARYSPYSLYNPELSSMDVEGGFDATDSKGFINIHALRLK VHQLVKKGYOR

## >DM\_train368

MSRNPSNSDAAHAFWSTQPVPQTEDETEKIVFAGPMDEPKTVADIPEEPYPIASTFEWWTPNMEAA DDIHAIYELLRDNYVEDDDSMFRFNYSEEFLQWALCPPSYIPDWHVAVRRKADKKLLAFIAGVPVTLR MGTPKYMKVKAQEKGQEEEAAKYDAPRHICEINFLCVHKQLREKRLAPILIKEVTRRVNRTNVWQAV YTAGVLLPTPYASGQYFHRSLNPEKLVEIRFSGIPAQYQKFQNPMAMLKRNYQLPNAPKNSGLREMK PSDVPQVRRILMNYLDNFDVGPVFSDAEISHYLLPRDGVVFTYVVENDKKVTDFFSFYRIPSTVIGNSN YNILNAAYVHYYAATSMPLHQLILDLLIVAHSRGFDVCNMVEILDNRSFVEQLKFGAGDGHLRYYFYN WAYPKIKPSQVALVML

### >DM train371

MFVFMLLLLPFTISKAKDFPANPIEKAGYKLDFSDEFNGPTLDREKWTDYYLPHWCKDPESAKANYRF ENGSLVEYITEDQKPWCPEHDGTVRSSAIMSFDKSWIHNFSGTTDNHERNEWRGYTTKYGYFEIRAKL SNTGGGGHQAWWMVGMQDDTNDWFNSKQTGEIDILETFFSKKDTWRIAAYGWNDPNFQTSWTI SEDKVPSGDPTSEYHIYAMEWTPTALKFYYDNELFKVIYGSPDYEMGTILNIYTDAGSGAHNDVWPKE WAIDYMRVWKPVDGYKESESLNNYLIRNRQTGKFLYIEENNDKVSYGDITLKNEKNAKWSKEYRDGY TLLKNNETGEYLNIENQTGYIEHGKVPKTWWSAQWSEVPVDGYTRFVNRWKPNMSIHTESYEGVLQ YGNVPNTYWTSQWQLIPVE

>DM train373

>DM\_train375

MAAKNAFYAQSGGVTAVINASAAGVIEAARKQSGKIGRIYAGRNGIIGALTEDLIDTGQESDAAISALR YTPSGAFGSCRYKLKSLEQNRREYERLIEVFKAHDIGYFFYNGGGDSADTCLKVSQLSGTLGYPIQAIHV PKTVDNDLPITDCCPGFGSVAKYIAVSTLEASFDVASMSATSTKVFVLEVMGRHAGWIAAAGGLASSP EREIPVVILFPEISFDKQKFLAKVDSCVKKFGYCSVVVSEGVKGDDGKFLSDQGVRDAFGHAQLGGVA PVVASMVKEGLGLKYHWGVADYLQRAARHIASKTDVEQAYAMGQAAVEFAVQGHNSVMPTIERIS ARPYQWKVGMAQLSQVANVEKMMPENFITEDGFGITDLCREYLAPLIEGEDYPPYKDGLPDYVRLKN VAVPKKLSGFTL

>DM\_train376

MGDKGTRVFKKASPNGKLTVYLGKRDFVDHIDLVEPVDGVVLVDPEYLKERRVYVTLTCAFRYGREDL DVLGLTFRKDLFVANVQSFPPAPEDKKPLTRLQERLIKKLGEHAYPFTFEIPPNLPCSVTLQPGPEDTGK ACGVDYEVKAFCAENLEEKIHKRNSVRLVIRKVQYAPERPGPQPTAETTRQFLMSDKPLHLEASLDKEI YYHGEPISVNVHVTNNTNKTVKKIKISVRQYADICLFNTAQYKCPVAMEEADDTVAPSSTFCKVYTLTP FLANNREKRGLALDGKLKHEDTNLASSTLLREGANREILGIIVSYKVKVKLVVSRGGLLGDLASSDVAVE LPFTLMHPKPKEEPPHREVPEHETPVDTNLIELDTNDDDIVFEDFARQRLKGMKDDKEEEEDGTGSPRL NDR

>DM train377

GSHMTNYKEKLQQYAELLVKVGMNVQPKQPVFIRSSVETLELTHLIVEEAYHCGASDVRVVYSDPTLK

RLKFENESVEHFANHEIKSYDVEARMDYVKRGAANLALISEDPDLMDGIDSQKLQAFQQQNARAFK GYMESVQKNQFPWVVAAFPSKAWAKRVYPELSVEEAYIKFIDEVFDIVRIDGNDPVENWRQHIANLS VYAQKLQQKNYHALHYVSEGTDLTVGLAKNHIWEDATSYVNGKEQAFIANIPTEEVFTAPDRNRVD GYVTNKLPLSYNGTIIDQFKLMFKDGEIIDFSAEKGEAVLKDLINTDEGSRRLGEVALVPDDSPISNRNTI FYNTLFDENAACHLAIGSAYAFNIQGGTEMTVEEKIASGLNDSNVHVDFMIGSSDLTIYGIFEDGSKEL VFENGNWASTF

### >DM\_train378

MSLSTPLQGIKVLDFTGVQSGPSCTQMLAWFGADVIKIERPGVGDVTRHQLRDIPDIDALYFTMLNS NKRSIELNTKTAEGKEVMEKLIREADILVENFHPGAIDHMGFTWEHIQEINPRLIFGSIKGFDECSPYVN VKAYENVAQAAGGAASTTGFWDGPPLVSAAALGDSNTGMHLLIGLLAALLHREKTGRGQRVTMSM QDAVLNLCRVKLRDQQRLDKLGYLEEYPQYPNGTFGDAVPRGGNAGGGGQPGWILKCKGWETDP NAYIYFTIQEQNWENTCKAIGKPEWITDPAYSTAHARQPHIFDIFAEIEKYTVTIDKHEAVAYLTQFDIP CAPVLSMKEISLDPSLRQSGSVVEVEQPLRGKYLTVGCPMKFSAFTPDIKAAPLLGEHTAAVLQELGYS DDEIAAMKQNHAI

#### >DM\_train379

SESPWIAEDTSQIQTKLLEFAKSPEVFDWMVKIRRKIHENPELGYEELETSKLIRSELELIGIKYRYPVAITG VIGYIGTGEPPFVALRADMDALPIQEGVEWEHKSKIAGKMHACGHDGHVTMLLGAAKILHEHRHHL QGTVVLIFQPAEEGLSGAKKMREEGALKNVEAIFGIHLSARIPFGKAASRAGSFLAGAGVFEAVITGKG GHAAIPQHTIDPVVAASSIVLSLQQLVSRETDPLDSKVVTVSKVNGGNAFNVIPDSITIGGTLRAFTGFT QLQQRVKEVITKQAAVHRCNASVNLTPNGREPMPPTVNNKDLYKQFKKVVRDLLGQEAFVEAAPV MGSEDFSYFAETIPGHFSLLGMQDETNGYASSHSPLYRINEDVLPYGAAIHASMAVQYLKEKASKGSV SGFHEEL

### >DM\_train382

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGR PDGVPMPDKYSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKD ASGNKVKAEPAKIEAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKA LESPERPFLAILGGAKVADKIQLINNMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDL MSKAEKNGVKITLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPESSKKYAEAVTRAKQIV WNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGGGASLE LLEGKVLPGVDALSNI

## >DM train385

CGSSSHETSYGYATLSYADYWAGELGQSRDVLLAGNAEADRAGDLDAGMFDAVSRATHGHGAFR QQFQYAVEVLGEKVLSKQETEDSRGRKKWEYETDPSVTKMVRASASFQDLGEDGEIKFEAVEGAVAL ADRASSFMVDSEEYKITNVKVHGMKFVPVAVPHELKGIAKEKFHFVEDSRVTENTNGLKTMLTEDSFS ARKVSSMESPHDLVVDTVGTGYHSRFGSDAEASVMLKRADGSELSHREFIDYVMNFNTVRYDYYGD DASYTNLMASYGTKHSADSWWKTGRVPRISCGINYGFDRFKGSGPGYYRLTLIANGYRDVVADVRFL PKYEGNIDIGLKGKVLTIGGADAETLMDAAVDVFADGQPKLVSDQAVSLGQNVLSADFTPGTEYTVE VRFKEFGSVRAKVVAO

## >DM\_train386

MGSDKIHHHHHHPEQQVQQFAQLPVGFKNMGNTCYLNATLQALYRVNDLRDMILNYNPSQGVS NSGAQDEEIHKQIVIEMKRCFENLQNKSFKSVLPVVLLNTLRKCYPQFAERDSQGGFYKQQDAEELFT QLFHSMSIVFGDKFSEDFRIQFKTTIKDTANDNDITVKENESDSKLQCHISGTTNFMRNGLLEGLNEKIE KRSDLTGANSIYSVEKKISRLPKFLTVQYVRFFWKRSTNKKSKILRKVVFPFQLDVADMLTPEYAAEKVK VRDELRKVEKEKNEKEREIKRRKFDPSSSENVMTPREQYETQVALNESEKDQWLEEYKKHFPPNLEKGE NPSCVYNLIGVITHQGANSESGHYQAFIRDELDENKWYKFNDDKVSVVEKEKIESLAGGGESDSALIL MYKGFGL

## >DM\_train387

MSSKPKYVQDQEMIPGVYWVGIVDWMVRIFHGYHTDEGSSYNSYFIDDECPTVIDSVKYPFAEEWLS RIAACCPLDKIKYVVMNHAEGDHASSLKDHYHKFTNATFVCTKKCQEHLKILYGMEKATWLIVDDKYT LKIGKRTLKFIPVPLLHWPDSTFTYCPEDKILFSNDGFGQHYATSRRWADECDVSHVMHLFKEYTANIL GLFSAQMRKALEVASTVEIKYILSAHGVSWRGDAMGLAIAEYDRWSKGQHCQKKVTVVLDSMYGTT HRMALALLDGARSTGCETVLLEMTSSDITKVALHTYDSGAVAFASPTLNNTMMPSVAAALNYVRGLT

LIKGKPAFAFGAFGWSNRAVPDIVAELRDGCKADVYDEKGITFKFNYTEELLEQAYNAGVDLGKRAIA YCEKNAPKO

### >DM train388

### >DM train389

KIQGGSVVEMQGDEMTRIIWELIKEKLILPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKYNVGVK CATITPDEKRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVTGWVKPIIIGRHAYGDQYRAT DFVVPGPGKVEITYTPKDGTQKVTYMVHDFEEGGGVAMGMYNQDKSIEDFAHSSFQMALSKGWPL YLSTKNTILKKYDGRFKDIFQEIYDKKYKSQFEAQNICYEHRLIDDMVAQAMKSEGGFIWACKNYDGD VQSDSVAQGYGSLGMMTSVLICPDGKTVEAEAAHGTVTRHYRMYQKGQETSTNPIASIFAWSRGLA HRAKLDNNTELSFFAKALEDVCIETIEAGFMTKDLAACIKGLPNVQRSDYLNTFEFMDKLGENLKAKLA OAK

### >DM\_train390

ADGQQGAPLNSPNTYDVTTWRIKAHPEVTAQSDIGAVINDIIADIKQRQTSPDARPGAAIIIPPGDYD LHTQVVVDVSYLTIAGFGHGFFSRSILDNSNPTGWQNLQPGASHIRVLTSPSAPQAFLVKRAGDPRLS GIVFRDFCLDGVGFTPGKNSYHNGKTGIEVASDNDSFHITGMGFVYLEHALIVRGADALRVNDNMIA ECGNCVELTGAGQATIVSGNHMGAGPDGVTLLAENHEGLLVTGNNLFPRGRSLIEFTGCNRCSVTSN RLQGFYPGMLRLLNGCKENLITANHIRRTNEGYPPFIGRGNGLDDLYGVVHIAGDNNLISDNLFAYNV PPANIAPAGAQPTQILIAGGDANVVALNHVVSDVASQHVVLDASTTHSKVLDSGTASQITSYSSDTAI RPTP

### >DM train391

## >DM\_train392

## >DM train393

APQVVDKVAAVVNNGVVLESDVDGLMQSVKLNAAQARQQLPDDATLRHQIMERLIMDQIILQMG QKMGVKISDEQLDQAIANIAKQNNMTLDQMRSRLAYDGLNYNTYRNQIRKEMIISEVRNNEVRRRIT ILPQEVESLAQQVGNQNDASTELNLSHILIPLPENPTSDQVNEAESQARAIVDQARNGADFGKLAIAH SADQQALNGGQMGWGRIQELPGIFAQALSTAKKGDIVGPIRSGVGFHILKVNDLRGESKNISVTEVH ARHILLKPSPIMTDEQARVKLEQIAADIKSGKTTFAAAAKEFSQDPGSANQGGDLGWATPDIFDPAFR DALTRLNKGQMSAPVHSSFGWHLIELLDTRNVDKTDAAQKDRAYRMLMNRKFSEEAASWMQEQR ASAYVKILSN

>DM train394

MLFDEKEILAITRWAKLYANQSPDRILLGSNDIPPEYRAAVATQIELWPRLRNKLPQWAGISSLYIPSRL SLEQSSGAVTSSYKSRFIREGTKVVDLTGGLGIDFIALMSKASQGIYIERNDETAVAARHNIPLLLNEGK DVNILTGDFKEYLPLIKTFHPDYIYVDPARRSGADKRVYAIADCEPDLIPLATELLPFCSSILAKLSPMIDL WDTLQSLLHVQELHVVAAHGEVKELLVRMSLNEATIPPEKVPIHAINLLLEDTVIPFIFTMEEERSISIPYT DSIDKYVYEPHTALLKAGAFKTVAYRLGLRKLHPNSHLYTSEAYESAFPGRTFVLEEIIPFSTSVLKQLRKV VPQASISCRNFPLSPIELRQRSKMADGGEKTLMGTTMADGKKVLLLLRKAE

## >DM\_train395

## >DM train396

MADLLPEHPEFLWANPEPKKSYDAIIVGGGGHGLATAYFLAKNHGITNVAVLEKGWLAGGNMARNT TIIRSNYLWDESAGIYEKSLKLWEQLPEDLEYDFLFSQRGVLNLAHTLGDVRESVRRVEANKLNGVDAE WLDPSQVKEACPIINTSDDIRYPVMGATWQPRAGIAKHDHVAWAFARKANEMGVDIIQNCEVTGFI KDGEKVTGVKTTRGTIHAGKVALAGAGHSSVLAEMAGFELPIQSHPLQALVSELFEPVHPTVVMSNHI HVYVSQAHKGELVMGAGIDSYNGYGQRGAFHVIQEQMAAAVELFPIFARAHVLRTWGGIVDTTMD ASPIISKTPIQNLYVNCGWGTGGFKGTPGAGFTLAHTIANDEPHELNKPFSLERFETGHLIDEHGAAAV AH

# >DM\_train399

MSTFNRIHLVVLDSVGIGAAPDANNFSNAGVPDGASDTLGHISKTVGLNVPNMAKIGLGNIPRDTPL KTVPAENHPTGYVTKLEEVSLGKDTMTGHWEIMGLNITEPFDTFWNGFPEEIISKIEKFSGRKVIREANK

## >DM train401

EKPGETKEVHPQLTTFRCTKRGGCKPATNFIVLDSLSHPIHRAEGLGPGGCGDWGNPPPKDVCPDVE SCAKNCIMEGIPDYSQYGVTTNGTSLRLQHILPDGRVPSPRVYLLDKTKRRYEMLHLTGFEFTFDVDAT KLPCGMNSALYLSEMHPTGAKSKYNPGGAYYGTGYCDAQCFVTPFINGLGNIEGKGSCCNSMDIWE ANSRASHVAPHTCNKKGLYLCEGEECAFEGVCDKNGCGWNNYRVNVTDYYGRGEEFKVNTLKPFT VVTQFLANRRGKLEKIHRFYVQDGKVIESFYTNKEGVPYTNMIDDEFCEATGSRKYMELGATQGMGE ALTRGMVLAMSIWWDQGGNMEWLDHGEAGPCAKGEGAPSNIVQVEPFPEVTYTNLRWGEIGSTY OELO

## >DM\_train402

## >DM\_train404

MQRPSDQTAPGTSSRPILSAKEAQNFDAQHYFASLTPGAAAWNPSPITLPAQPDFVVGPAGTQGVT HTTIQAAVDAAIIKRTNKRQYIAVMPGEYQGTVYVPAAPGGITLYGTGEKPIDVKIGLSLDGGMSPAD WRHDVNPRGKYMPGKPAWYMYDSCQSKRSDSIGVLCSAVFWSQNNGLQLQNLTIENTLGDSVDA GNHPAVALRTDGDQVQINNVNILGRQNTFFVTNSGVQNRLETNRQPRTLVTNSYIEGDVDIVSGRG AVVFDNTEFRVVNSRTQQEAYVFAPATLSNIYYGFLAVNSRFNAFGDGVAQLGRSLDVDANTNGQV VIRDSAINEGFNTAKPWADAVISNRPFAGNTGSVDDNDEIQRNLNDTNYNRMWEYNNRGVGSKVV

### **AEAKK**

## >DM\_train405

## >DM train406

# >DM\_train407

MTALKVGSESWWQSKHGPEWQRLNDEMFEVTFWWRDPQGSEEYSTIKRVWVYITGVTDHHQNS QPQSMQRIAGTDVWQWTTQLNANWRGSYCFIPTERDDIFSAPSPDRLELREGWRKLLPQAIADPLN PQSWKGGLGHAVSALEMPQAPLQPGWDCPQAPEIPAKEIIWKSERLKNSRRVWIFTTGDVTAEERPL AVLLDGEFWAQSMPVWPVLTSLTHRQQLPPAVYVLIDAIDTTHRAHELPCNADFWLAVQQELLPLV KVIAPFSDRADRTVVAGQSFGGLSALYAGLHWPERFGCVLSQSGSYWWPHRGGQQEGVLLEKLKA GEVSAEGLRIVLEAGIREPMIMRANQALYAQLHPIKESIFWRQVDGGHDALCWRGGLMQGLIDLWQ PLFHDRS

>DM\_train408

>DM train409

TMAHHHHHHVTNSTDGRADGRLRVVVLGSTGSIGTQALQVIADNPDRFEVVGLAAGGAHLDTLLR QRAQTGVTNIAVADEHAAQRVGDIPYHGSDAATRLVEQTEADVVLNALVGALGLRPTLAALKTGAR LALANKESLVAGGSLVLRAARPGQIVPVDSEHSALAQCLRGGTPDEVAKLVLTASGGPFRGWSAADL EHVTPEQAGAHPTWSMGPMNTLNSASLVNKGLEVIETHLLFGIPYDRIDVVVHPQSIIHSMVTFIDGS TIAQASPPDMKLPISLALGWPRRVSGAAAACDFHTASSWEFEPLDTDVFPAVELARQAGVAGGCMT AVYNAANEEAAAAFLAGRIGFPAIVGIIADVLHAADQWAVEPATVDDVLDAQRWARERAQRAVSG

>DM train410

>DM train411

### >DM\_train412

# >DM train413

## >DM\_train414

MGVTKTPLYETLNESSAVALAVKLGLFPSKSTLTCQEIGDGNLNYVFHIYDQEHDRALIIKQAVPYAKV VGESWPLTIDRARIESSALIRQGEHVPHLVPRVFYSDTEMAVTVMEDLSHLKIARKGLIEGENYPHLSQ HIGEFLGKTLFYSSDYALEPKVKKQLVKQFTNPELCDITERLVFTDPFFDHDTNDFEEELRPFVEKLWNN DSVKIEAAKLKKSFLTSAETLIHGDLHTGSIFASEHETKVIDPEFAFYGPIGFDVGQFIANLFLNALSRDGA DREPLYEHVNQVWETFEETFSEAWQKDSLDVYANIDGYLTDTLSHIFEEAIGFAGCELIRRTIGLAHVA

### DLDTIVPFDKRIGRKRLALETGTAFIEKRSEFKTITDVIELFKLLVKE

## >DM\_train416

MSPLRKTVPEFLAHLKSLPISKIASNDVLTICVGNESADMDSIASAITYSYCQYIYNEGTYSEEKKKGSFIV PIIDIPREDLSLRRDVMYVLEKLKIKEEELFFIEDLKSLKQNVSQGTELNSYLVDNNDTPKNLKNYIDNVV GIIDHHFDLQKHLDAEPRIVKVSGSCSSLVFNYWYEKLQGDREVVMNIAPLLMGAILIDTSNMRRKVE ESDKLAIERCQAVLSGAVNEVSAQGLEDSSEFYKEIKSRKNDIKGFSVSDILKKDYKQFNFQGKGHKGL EIGLSSIVKRMSWLFNEHGGEADFVNQCRRFQAERGLDVLVLLTSWRKAGDSHRELVILGDSNVVREL IERVSDKLQLQLFGGNLDGGVAMFKQLNVEATRKQVVPYLEEAYSNLEE

## >DM train417

GMETYDVLVVGGGPGGSTAARYAAKYGLKTLMIEKRPEIGSPVRCGEGLSKGILNEADIKADRSFIANE VKGARIYGPSEKRPIILQSEKAGNEVGYVLERDKFDKHLAALAAKAGADVWVKSPALGVIKENGKVAG AKIRHNNEIVDVRAKMVIAADGFESEFGRWAGLKSVILARNDIISALQYRMINVDVDPDYTDFYLGSIA PAGYIWVFPKGEGMANVGIGSSINWIHNRFELKNYLDRFIENHPGLKKGQDIQLVTGGVSVSKVKMPI TMPGLMLVGDAARLIDPITGGGIANAIVSGMYAAQVTKEAIESNDYSPQMMQKYEKLIKERFERKHLR NWVAKEKLAMLSDDTLDKLVDIVSEQVLTTISVEAILKAIAEKYPEVVKELEDLI

# >DM\_train418

>DM\_train419

PQDLMVTCTAPVNIAVIKYWGKRDEALILPINSSLSVTLHQDQLKTTTTVAISKDFTEDRIWLNGREED VGQPRLQACLREIRRLARKRRSTEDGDTLPLSLSYKVHVASVNNFPTAAGLASSAAGYACLAYTLAQV YGVEGDLSEVARRGSGSACRSLYGGFVEWQMGEQADGKDSIARQIAPEWHWPQLRILILVVSADKK QTGSTVGMQTSVETSTLLKFRAESVVPERMKEMTRCIQEQDFQGFAQLTMKDSNQFHATCLDTFPPI SYLNDTSRRIIQLVHRFNTHHGQTKVAYTFDAGPNAVIFTLEDTVAEFVAAVRHSFPPAANGDKFLKG LOVAPVLLSDELKAALVVEPSPGGVOYIIATOVGPGPOVLDDTHDHLLGODGLPORDL

>DM train421

>DM\_train422

MFAKFPSSASISPNPFTVSIPDEQLDDLKTLVRLSKIAPPTYESLQADGRFGITSEWLTTMREKWLSEFD WRPFEARLNSFPQFTTEIEGLTIHFAALFSEREDAVPIALLHGWPGSFVEFYPILQLFREEYTPETLPFHLV VPSLPGYTFSSGPPLDKDFGLMDNARVVDQLMKDLGFGSGYIIQGGDIGSFVGRLLGVGFDACKAVH LNFCNMSAPPEGPSIESLSAAEKEGIARMEKFMTDGYAYAMEHSTRPSTIGHVLSSSPIALLAWIGEKYL QWVDKPLPSETILEMVSLYWLTESFPRAIHTYREWVPTASAPNGATPYQKELYIHKPFGFSFFPKDLVP VPRSWIATTGNLVFFRDHAEGGHFAALERPRELKTDLTAFVEQVWQK

>DM train424

AQVQQLTPAQQAALRNQQAMAANLQARQIVLQQSYPVIQQVETQTFDPANRSVFDVTPANVGIV KGFLVKVTAAITNNHATEAVALTDFGPANLVQRVIYYDPDNQRHTETSGWHLHFVNTAKQGAPFLS

## >DM train425

APLASVPTPAFPFPVPTMVHGPCVAESEPALLTGSKQFGLSRNSHIAIAFDDTKVKNRLTIELEVRTEAE SGLLFYMARINHADFATVQLRNGFPYFSYDLGSGDTSTMIPTKINDGQWHKIKIVRVKQEGILYVDDA SSQTISPKKADILDVVGILYVGGLPINYTTRRIGPVTYSLDGCVRNLHMEQAPVDLDQPTSSFHVGTCF ANAESGTYFDGTGFAKAVGGFKVGLDLLVEFEFRTTRPTGVLLGVSSQKMDGMGIEMIDEKLMFHVD NGAGRFTAIYDAEIPGHMCNGQWHKVTAKKIKNRLELVVDGNQVDAQSPNSASTSADTNDPVFVG GFPGGLNQFGLTTNIRFRGCIRSLKLTKGTGKPLEVNFAKALELRGVQPVSCPTT

## >DM\_train426

MKTQVAIIGAGPSGLLLGQLLHKAGIDNVILERQTPDYVLGKIRAGVLEQGMVDLLREAGVDRRMAR DGLVHEGVEIAFAGQRRRIDLKRLSGGKTVTVYGQTEVTRDLMEAREASGATTVYQAAEVRLHDLQG ERPYVTFERDGERLRLDCDYIAGCDGFHGISRQSIPAERLKVFERVYPFGWLGLLADTPPVSHELIYANH PRGFALCSQRSATRSRYYVQVPLTEKVEDWSDERFWTELKARLPAEVAEKLVTGPSLEKSIAPLRSFVVE PMQHGRLFLAGDAAHIVPPTGAKGLNLAASDVSTLYRLLLKAYREGRGELLERYSAICLRRIWKAERFS WWMTSVLHRFPDTDAFSQRIQQTELEYYLGSEAGLATIAENYVGLPYEEIE

## >DM train428

GMSSSDRYMQRGVSSQKEDVHKAIKSIDKGIYPRAFCKIIPDILGGDPEYCNIMHADGAGTKSSLAYV YWKETGDISVWKGIAQDAVIMNIDDLICVGAVDNILLSSTIGRNKNLIPGEVLAAIINGTEEVLQMLRD NGIGIYSTGGETADVGDLVRTIIVDSTVTCRMKRQDVISNENIKAGNVIVGFASYGQTSYETEYNGGM GSNGLTSARHDVFNNVLASKYPESFDPKVPENLVYSGEMNLTDPYLNVPLDAGKLVLSPTRTYAPLM KEIIHQYKGKLDGVVHCSGGGQTKVLHFTDATTHIIKDNLFDVPPLFQLIQGQSNTPWEEMYKVFNM GHRLEIYTDAAHAEGMIAIAKKFNIEAKIIGRVEAPVAGKRLTITGPQGTEYTYA

### >DM train429

## >DM\_train430

MKLEIFSWWAGDEGPALEALIRLYKQKYPGVEVINATVTGGAGVNARAVLKTRMLGGDPPDTFQVH AGMELIGTWVVANRMEDLSALFRQEGWLQAFPKGLIDLISYKGGIWSVPVNIHRSNVMWYLPAKLK GWGVNPPRTWDKFLATCQTLKQKGLEAPLALGENWTQQHLWESVALAVLGPDDWNNLWNGKLK FTDPKAVRAWEVFGRVLDCANKDAAGLSWQQAVDRVVQGKAAFNIMGDWAAGYMTTTLKLKPG TDFAWAPSPGTQGVFMMLSDSFGLPKGAKNRQNAINWLRLVGSKEGQDTSNPLKGSIAARLDSDPS KYNAYGQSAMRDWRSNRIVGSLVHGAVAPESFMSQFGTVMEIFLQTRNPQAAANAAQAIADQVG LGRLGO

### >DM train432

IESLCMNCYRNGTTRLLLTKIPFFREIIVSSFSCEHCGWNNTEIQSAGRIQDQGVRYTLTVRSQEDMNR EVVKTDSATTRIPELDFEIPAFSQKGALTTVEGLISRAISGLEQDQPTRRAVEGAIAERIDEFIGKLKDLKQ MASPFTLVIDDPSGNSFVENPHAPQKDNALVITYYDRTPQQAEMLGLQAEAPEEKAEEEDLRNEVLQ FNTNCPECNAPAQTNMKLVQIPHFKEVIIMATNCENCGHRTNEVKSGGAVEPLGTRITLHITDPSDM TRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGLLKDIRELVTKNPFTLGDSSNPDQSEKLQEFSQKLG QIIEGKMKAHFIMNDPAGNSYLQNVYAPEDDPEMKVERYKRTFDQNEE

>DM train433

MASMQKLINSVQNYAWGSKTALTELYGIANPQQQPMAELWMGAHPKSSSRITTANGETVSLRDAIE KNKTAMLGEAVANRFGELPFLFKVLCAAQPLSIQVHPNKRNSEIGFAKENAAGIPMDAAERNYKDPN HKPELVFALTPFLAMNAFREFSDIVSLLQPVAGAHSAIAHFLQVPNAERLSQLFASLLNMQGEEKSRAL AVLKAALNSQQGEPWQTIRVISEYYPDDSGLFSPLLLNVVKLNPGEAMFLFAETPHAYLQGVALEVM ANSDNVLRAGLTPKYIDIPELVANVKFEPKPAGELLTAPVKSGAELDFPIPVDDFAFSLHDLALQETSIG QHSAAILFCVEGEAVLRKDEQRLVLKPGESAFIGADESPVNASGTGRLARVYNKL

## >DM\_train434

MLLEAPVYKEIFGAVTIHEVQKVIKMDTETEEVPIYTISNIPREKIYDLLGKMAVIVPMKNEKLHLVDGVL KAIPHKCPIIIVSNSKREGPNRYKLEVDLIRHFYNLTHSKIIMIHQKDPGLAKAFKEVGYTDILDENGMIRS GKGEGMLVGLLAKAIGAEYVGFVDADNYIPGAVNEYVKDYAAGFLMSESEYTMVRLHWRHKPKVT KGTLYFKKWGRVSEITNHYLNLLVSEHTAFETTIMVTGNAGEHAMTMKLAEILPFSTGYSIEPYEIVYILE RFGKWENVEEFKDVFDQGIEIFQIETLNPHFHEDKGKEHVKEMLLLSLATIYHSKLATDNLRKRILKDLR DHGILGENEEPPKPLVMRPIKEIPIKEWMDIVEGNSETLLRFEL

## >DM train435

MSNPTKISILGRESIIADFGLWRNYVAKDLISDCSSTTYVLVTDTNIGSIYTPSFEEAFRKRAAEITPSPRLLI YNRPPGEVSKSRQTKADIEDWMLSQNPPCGRDTVVIALGGGVIGDLTGFVASTYMRGVRYVQVPTT LLAMVDSSIGGKTAIDTPLGKNLIGAIWQPTKIYIDLEFLETLPVREFINGMAEVIKTAAISSEEEFTALEEN AETILKAVRREVTPGEHRFEGTEEILKARILASARHKAYVVSADEREGGLRNLLNWGHSIGHAIEAILTPQ ILHGECVAIGMVKEAELARHLGILKGVAVSRIVKCLAAYGLPTSLKDARIRKLTAGKHCSVDQLMFNM ALDKKNDGPKKKIVLLSAIGTPYETRASVVANEDIRVVLAP

### >DM\_train436

MAEGKMMSDFLPFSRPAMGAEELAAVKTVLDSGWITTGPKNQELEAAFCRLTGNQYAVAVSSATAG MHIALMALGIGEGDEVITPSMTWVSTLNMIVLLGANPVMVDVDRDTLMVTPEHIEAAITPQTKAIIPV HYAGAPADLDAIYALGERYGIPVIEDAAHATGTSYKGRHIGARGTAIFSFHAIKNITCAEGGIVVTDNP

### >DM\_train437

00000001111111111

### >DM train438

#### >DM train439

ASASTPHALLLISIDGLRADMLDRGITPNLSHLAREGVRARWMAPSYPSLTFPNHYTLVTGLRPDHHGI VHNSMRDPTLGGFWLSKSEAVGDARWWGGEPVWVGVENTGQHAATWSWPGSEAAIKGVRPSQ WRHYQKGVRLDTRVDAVRGWLATDGAQRNRLVTLYFEHVDEAGHDHGPESRQYADAVRAVDAAI GRLLAGMQRDGTRARTNIIVVSDHGMAEVAPGHAISVEDIAPPQIATAITDGQVIGFEPLPGQQAAA EASVLGAHDHYDCWRKAELPARWQYGSHPRIPSLVCQMHEGWDALFPDKLAKRAQRGTRGSHGY DPALPSMRAVFLAQGPDLAQGKTLPGFDNVDVYALMSRLLGIPAAPNDGNPATLLPALRMPPAPDA R

>DM train441

>DM\_train442

MATALYTANDFILISLPQNAQPVTAPGSKTDSWFNETLIGGRAFVSDFKIPEFKIGSLDTLIVESEELSKV DNQIGASIGKIIEILQGLNETSTNAYRTLPINNMPVPEYLENFQWQTRKFKLDKSIKDLITLISNESSQLD ADVRATYANYNSAKTNLAAAERKKTGDLSVRSLHDIVKPEDFVLNSEHLTTVLVAVPKSLKSDFEKSYE TLSKNVVPASASVIAEDAEYVLFNVHLFKKNVQEFTTAAREKKFIPREFNYSEELIDQLKKEHDSAASLE QSLRVQLVRLAKTAYVDVFINWFHIKALRVYVESVLRYGLPPHFNIKIIAVPPKNLSKCKSELIDAFGFLG GNAFMKDKKGKINKQDTSLHQYASLVDTEYEPFVMYIINL

>DM train443

GAMGSMKPYLFDLKLKDTEKLDWKKGLSSYLKKSYGSSQWRTFYDEKATSELDHLRNNANGELAPSS LSEQNLKYYSFLEHLYFRLGSKGSRLKMDFTWYDAEYSSAQKGLKYTQHTLAFEKSCTLFNIAVIFTQIA RENINEDYKNSIANLTKAFSCFEYLSENFLNSPSVDLQSENTRFLANICHAEAQELFVLKLLNDQISSKQ YTLISKLSRATCNLFQKCHDFMKEIDDDVAIYGEPKWKTTVTCKLHFYKSLSAYYHGLHLEEENRVGEAI AFLDFSMQQLISSLPFKTWLVEFIDFDGFKETLEKKQKELIKDNDFIYHESVPAVVQVDSIKALDAIKSPT WEKILEPYMQDVANKYDSLYRGIIPLDVYEKESIYSEEKATLLR

### >DM\_train444

#### >DM train445

TSTATDSPLKYYDIGLNLTDPMFHGIYNGKQYHPADYVKLLERAAQRHVKNALVTGSSIAESQSAIELV SSVKDLSPLKLYHTIGVHPCCVNEFADASQGDKASASIDNPSMDEAYNESLYAKVISNPSFAQGKLKE LYDLMNQQAKPHDTSFRSIGEIGLDYDRFHYSSKEMQKVFFEEQLKISCLNDKLSSYPLFLHMRSACD DFVQILERFVVGFTDEKDTFQLQKLGASSSSGFYKFHPDRKLVVHSFTGSAIDLQKLLNLSPNIFIGVNG CSLRTEENLAVVKQIPTERLLLETDAPWCEIKRTHASFQYLAKYQEVRDFEYPAFKSVKKNKLADKLNA EELYMVKGRNEPCNMEQVAIVVSEVKDVDLATLIDTTWKTTCKIFGE

### >DM train446

TSKNQFYKPGMLVPVFSAAGLLKNGRYQFLLQQIETLSLLPTEQYAQLYEALVYRFVEFVQVLPIRLDEP LCSLMNEGLLRGVNSLNHYIQNHPEATPLERYALFSAGLLLEVAHAVVNQKIFITDEEGNFIKQWNPFS GPLIDDVETKHYKIMPLSSYYQRNIPSITPILVRQLLPDEGFLWLTSDMRVFSDWMQALRDDEGEGGG RFEHVLQLFKHKNIDGLFNTLPALPVNLQDSPATAHADAFLNWLKEALATNQIKVNTSDAGVHVIPE GVFLEKTGIFKQYIDLHVNVPVNLFTVYQQFGNLFGLTKLSGIDYRFEQLFSEYPDALKRKSKMGFAGLI GIRRASPTREGVLIADPNLIFTRGEIPSATSYLKLSSAOKSONIPMT

#### >DM train447

PEFFSVRHLELAGDDPYSNVNCTKILQGDPEEIQKVKLEILTVQFKKRPRWTPHDYINMTRDCASFIRT RKYIVEPLTKEEVGFPIAYSIVVHHKIEMLDRLLRAIYMPQNFYCIHVDRKAEESFLAAVQGIASCFDNVF VASQLESVVYASWTRVKADLNCMKDLYRMNANWKYLINLCGMDFPIKTNLEIVRKLKCSTGENNLET EKMPPNKEERWKKRYAVVDGKLTNTGIVKAPPPLKTPLFSGSAYFVVTREYVGYVLENENIOKLMEWA

QDTYSPDEFLWATIQRIPEVPGSFPSSNKYDLSDMNAIARFVKWQYFEGDVSNGAPYPPCSGVHVRS VCVFGAGDLSWMLRQHHLFANKFDMDVDPFAIQCLDEHLRRKALENLEH

#### >DM train448

#### >DM train449

MIDYTAAGFTLLQGAHLYAPEDRGICDVLVANGKIIAVASNIPSDIVPNCTVVDLSGQILCPGFIDQHV HLIGGGGQAGPTTRTPEVALSRLTEAGVTSVVGLLGTDSISRHPESLLAKTRALNEEGISAWMLTGAYH VPSRTITGSVEKDVAIIDRVIGVKCAISDHRSAAPDVYHLANMAAESRVGGLLGGKPGVTVFHMGDSK KALQPIYDLLENCDVPISKLLPTHVNRNVPLFEQALEFARKGGTIDITSSIDEPVAPAEGIARAVQAGIPL ARVTLSSDGNGSQPFFDDEGNLTHIGVAGFETLLETVQVLVKDYDFSISDALRPLTSSVAGFLNLTGKG EILPGNDADLLVMTPELRIEQVYARGKLMVKDGKACVKGTFETA

### >DM\_train450

>DM\_train451

>DM train452

>DM train455

MEKTTEGAFYTREYRNLFKEFGYSEAEIOERVKDTWEOLFGDNPETKIYYEVGDDLGYLLDTGNLDVRT

EGMSYGMMMAVQMDRKDIFDRIWNWTMKNMYMTEGVHAGYFAWSCQPDGTKNSWGPAPDG EEYFALALFFASHRWGDGDEQPFNYSEQARKLLHTCVHNGEGGPGHPMWNRDNKLIKFIPEVEFSD PSYHLPHFYELFSLWANEEDRVFWKEAAEASREYLKIACHPETGLAPEYAYYDGTPNDEKGYGHFFSD SYRVAANIGLDAEWFGGSEWSAEEINKIQAFFADKEPEDYRRYKIDGEPFEEKSLHPVGLIATNAMGSL ASVDGPYAKANVDLFWNTPVRTGNRRYYDNCLYLFAMLALSGNFKIWFPEGQEEEH

### >DM train456

MAGSATVEKRLDFGLLGPLQMTIDGTPVPSGTPKQRAVLAMLVINRNRPVGVDALITALWEEWPPSG ARASIHSYVSNLRKLLGGAGIDPRVVLAAAPPGYRLSIPDNTCDLGRFVAEKTAGVHAAAAGRFEQAS RHLSAALREWRGPVLDDLRDFQFVEPFATALVEDKVLAHTAKAEAEIACGRASAVIAELEALTFEHPYR EPLWTQLITAYYLSDRQSDALGAYRRVKTTLADDLGIDPGPTLRALNERILRQQPLDAKKSAKTTAAGT VTVLDQRTMASGQQAVAYLHDIASGRGYPLQAAATRIGRLHDNDIVLDSANVSRHHAVIVDTGTNY VINDLRSSNGVHVOHERIRSAVTLNDGDHIRICDHEFTFOISAGTHGGT

### >DM\_train458

NSIQIGGLFPRGADQEYSAFRVGMVQFSTSEFRLTPHIDNLEVANSFAVTNAFCSQFSRGVYAIFGFYD KKSVNTITSFCGTLHVSFITPSFPTDGTHPFVIQMRPDLKGALLSLIEYYQWDKFAYLYDSDRGLSTLQA VLDSAAEKKWQVTAINVGNINNDKKDEMYRSLFQDLELKKERRVILDCERDKVNDIVDQVITIGKHVK GYHYIIANLGFTDGDLLKIQFGGANVSGFQIVDYDDSLVSKFIERWSTLEEKEYPGAHTTTIKYTSALTYD AVQVMTEAFRNLRKQRIEISRRGNAGDCLANPAVPWGQGVEIERALKQVQVEGLSGNIKFDQNGKR INYTINIMELKTNGPRKIGYWSEVDKMVVTLTELPSGNDTSGLE

## >DM train459

QKTQSAPGTLSPDARNEKQPFYGEHQAGILTPQQAAMMLVAFDVLASDKADLERLFRLLTQRFAFLT QGGAAPETPNPRLPPLDSGILGGYIAPDNLTITLSVGHSLFDERFGLAPQMPKKLQKMTRFPNDSLDA ALCHGDVLLQICANTQDTVIHALRDIIKHTPDLLSVRWKREGFISDHAARSKGKETPINLLGFKDGTAN PDSQNDKLMQKVVWVTADQQEPAWTIGGSYQAVRLIQFRVEFWDRTPLKEQQTIFGRDKQTGAPL GMQHEHDVPDYASDPEGKVIALDSHIRLANPRTAESESSLMLRRGYSYSLGVTNSGQLDMGLLFVCY QHDLEKGFLTVQKRLNGEALEEYVKPIGGGYFFALPGVKDANDYFGSALLRV

### >DM train460

# 000000000000 >DM\_train461

MSKTIIKNIGKIVSGDIKSPVLQADTIVVEDGLIAAIGGEELMKDAGDATIIDAAGSTVTPGLLDTHVHVS GGDYAPRQKTMDFISSALHGGVTTMISAGSPHFPGRPKDAAGTKALAITLSKSYYNARPAGVKVHGG AVILEKGLTEEDFIEMKKEGVWIVGEVGLGTIKNPEDAAPMVEWAHKHGFKVQMHTGGTSIPGSSTVT ADDVIKTKPDVVSHINGGPTAISVQEVDRIMDETDFAMEIVQCGNPKIADYVARRAAEKGQLGRVIFG NDAPSGTGLIPLGILRNMCQIASMSDIDPEVAVCMATGNSTAVYGLNTGVIAPGKEADLIIMDTPLGS VAEDAMGAIAAGDIPGISVVLIDGEAVVTKSRNTPPAKRAAKIL

#### >DM train462

MKKQNDIPQPIRGDKGATVKIPRNIERDRQNPDMLVPPETDHGTVSNMKFSFSDTHNRLEKGGYAR EVTVRELPISENLASVNMRLKPGAIRELHWHKEAEWAYMIYGSARVTIVDEKGRSFIDDVGEGDLWYF PSGLPHSIQALEEGAEFLLVFDDGSFSENSTFQLTDWLAHTPKEVIAANFGVTKEEISNLPGKEKYIFEN QLPGSLKDDIVEGPNGEVPYPFTYRLLEQEPIESEGGKVYIADSTNFKVSKTIASALVTVEPGAMRELHW HPNTHEWQYYISGKARMTVFASDGHARTFNYQAGDVGYVPFAMGHYVENIGDEPLVFLEIFKDDHY ADVSLNQWLAMLPETFVQAHLDLGKDFTDVLSKEKHPVVKKKCSK

### >DM train466

MTPISQTPGLLAEAMVDLGAIEHNVRVLREHAGHAQLMAVVKADGYGHGATRVAQTALGAGAAEL GVATVDEALALRADGITAPVLAWLHPPGIDFGPALLADVQVAVSSLRQLDELLHAVRRTGRTATVTVK VDTGLNRNGVGPAQFPAMLTALRQAMAEDAVRLRGLMSHMVYADKPDDSINDVQAQRFTAFLA QAREQGVRFEVAHLSNSSATMARPDLTFDLVRPGIAVYGLSPVPALGDMGLVPAMTVKCAVALVKSI RAGEGVSYGHTWIAPRDTNLALLPIGYADGVFRSLGGRLEVLINGRRCPGVGRICMDQFMVDLGPGP LDVAEGDEAILFGPGIRGEPTAQDWADLVGTIHYEVVTSPRGRITRTYREAENR

### >DM\_train467

MKSKKILIVGAGFSGAVIGRQLAEKGHQVHIIDQRDHIGGNSYDARDSETNVMVHVYGPHIFHTDNE TVWNYVNKHAEMMPYVNRVKATVNGQVFSLPINLHTINQFFSKTCSPDEARALIAEKGDSTIADPQT FEEEALRFIGKELYEAFFKGYTIKQWGMQPSELPASILKRLPVRFNYDDNYFNHKFQGMPKCGYTQMI KSILNHENIKVDLQREFIVEERTHYDHVFYSGPLDAFYGYQYGRLGYRTLDFKKFTYQGDYQGCAVMN YCSVDVPYTRITEHKYFSPWEQHDGSVCYKEYSRACEENDIPYYPIRQMGEMALLEKYLSLAENETNIT FVGRLGTYRYLDMDVTIAEALKTAEVYLNSLTENQPMPVFTVSVR

### >DM train468

MELQEVLHMNGGEGDTSYAKNSSYNLFLIRVKPVLEQCIQELLRANLPNINKCFKVGDLGCASGPNTF STVRDIVQSIDKVGQEKKNELERPTIQIFLNDLFQNDFNSVFKLLPSFYRNLEKENGRKIGSCLIGAMPG SFYSRLFPEESMHFLHSCYCLHWLSQVPSGLVTELGISVNKGCIYSSKASRPPIQKAYLDQFTKDFTTFL RIHSEELISRGRMLLTFICKEDEFDHPNSMDLLEMSINDLVIEGHLEEEKLDSFNVPIYAPSTEEVKRIVEE EGSFEILYLETFNAPYDAGFSIDDDYQGRSHSPVSCDEHARAAHVASVVRSIYEPILASHFGEAILPDLS HRIAKNAAKVLRSGKGFYDSVIISLAKKPEKADM

#### >DM\_train469

MRILFVAAGSPATVFALAPLATAARNAGHQVVMAANQDMGPVVTGVGLPAVATTDLPIRHFITTDR EGRPEAIPSDPVAQARFTGRWFARMAASSLPRMLDFSRAWRPDLIVGGTMSYVAPLLALHLGVPHA RQTWDAVDADGIHPGADAELRPELSELGLERLPAPDLFIDICPPSLRPANAAPARMMRHVATSRQCP

LEPWMYTRDTRQRVLVTSGSRVAKESYDRNFDFLRGLAKDLVRWDVELIVAAPDTVAEALRAEVPQA RVGWTPLDVVAPTCDLLVHHAGGVSTLTGLSAGVPQLLIPKGSVLEAPARRVADYGAAIALLPGEDST EAIADSCQELQAKDTYARRAQDLSREISGMPLPATVVTALEQLAHHHHHH

### >DM\_train470

APKRKAGVSKCETKCTKACPRPAPVPKLLIKGGMEVLDLVTGPDSVTEIEAFLNPRMGQPPTPESLTEG GQYYGWSRGINLATSDTEDSPGNNTLPTWSMAKLQLPMLNEDLTCDTLQMWEAVSVKTEVVGSGS LLDVHGFNKPTDTVNTKGISTPVEGSQYHVFAVGGEPLDLQGLVTDARTKYKEEGVVTIKTITKKDMV NKDQVLNPISKAKLDKDGMYPVEIWHPDPAKNENTRYFGNYTGGTTTPPVLQFTNTLTTVLLDENGV GPLCKGEGLYLSCVDIMGWRVTRNYDVHHWRGLPRYFKITLRKRWVKNPYPMASLISSLFNNMLPQ VQGQPMEGENTQVEEVRVYDGTEPVPGDPDMTRYVDRFGKTKTVFPGN

## >DM\_train471

NDVGAESKQPLLDIALKGLKRTLPQLEQMDGNSLRENFQEMASGNGPLRSLMTNLQNLNKIPEAKQ LNDYVTTLTNIQVGVARFSQWGTCGGEVERWVDKASTHELTQAVKKIHVIAKELKNVTAELEKIEAGA PMPQTMSGPTLGLARFAVSSIPINQQTQVKLSDGMPVPVNTLTFDGKPVALAGSYPKNTPDALEAH MKMLLEKECSCLVVLTSEDQMQAKQLPPYFRGSYTFGEVHTNSQKVSSASQGEAIDQYNMQLSCGE KRYTIPVLHVKNWPDHQPLPSTDQLEYLADRVKNSNQNGAPGRSSSDKHLPMIHCLGGVGRTGTM AAALVLKDNPHSNLEQVRADFRDSRNNRMLEDASQFVQLKAMQAQLLMTTAS

### >DM\_train473

PQPPADEQPEPRTRRRAYLWCKEFLPGAWRGLREDEFHISVIRGGLSNMLFQCSLPDTTATLGDEPRK VLLRLYGAILQMRSCNKEGSEQAQKENEFQGAEAMVLESVMFAILAERSLGPKLYGIFPQGRLEQFIPS RRLDTEELSLPDISAEIAEKMATFHGMKMPFNKEPKWLFGTMEKYLKEVLRIKFTEESRIKKLHKLLSYNL PLELENLRSLLESTPSPVVFCHNDCQEGNILLLEGRENSEKQKLMLIDFEYSSYNYRGFDIGNHFCEWM YDYSYEKYPFFRANIRKYPTKKQQLHFISSYLPAFQNDFENLSTEEKSIIKEEMLLEVNRFALASHFLWGL WSIVQAKISSIEFGYMDYAQARFDAYFHQKRKLGV

### >DM\_train476

MKALHFGAGNIGRGFIGKLLADAGIQLTFADVNQVVLDALNARHSYQVHVVGETEQVDTVSGVNA VSSIGDDVVDLIAQVDLVTTAVGPVVLERIAPAIAKGLVKRKEQGNESPLNIIACENMVRGTTQLKGHV MNALPEDAKAWVEEHVGFVDSAVDRIVPPSASATNDPLEVTVETFSEWIVDKTQFKGALPNIPGMEL TDNLMAFVERKLFTLNTGHAITAYLGKLAGHQTIRDAILDEKIRAVVKGAMEESGAVLIKRYGFDADKH AAYIQKILGRFENPYLKDDVERVGRQPLRKLSAGDRLIKPLLGTLEYSLPHKNLIQGIAGAMHFRSEDDP OAQELAALIADKGPQAALAQISGLDANSEVVSEAVTAYKAMQ

### >DM\_train477

EESRESPAEHGYYMPAEWDSHAQTWIGWPERQDNWRHNALPAQRVFAGVAKAISKFEPVTVCASP AQWENARKQLPEDIRVVEMSMNDSWFRDSGPTFIVRKRPVKLSSLNRNIAGIDWNFNAWGGAND GCYNDWSHDLLVSRKILALERIPRFQHSMILEGGSIHVDGEGTCLVTEECLLNKNRNPHMSKEQIEEEL KKYLGVQSFIWLPRGLYGDEDTNGHIDNMCCFARPGVVLLSWTDDETDPQYERSVEALSVLSNSIDA RGRKIQVIKLYIPEPLYMTEEESSGITQDGEAIPRLAGTRLAASYVNFYIANGGIIAPQFGDPIRDKEAIRV LSDTFPHHSVVGIENAREIVLAGGNIHCITQQQPAEPTSVAENGH

## >DM\_train478

MKSFQLVATAASGLEAIVGKEVARLGYDPKVENGKVYFEGDLSAIARANLWLRVADRVKIVVGVFKAT TFDELFEKTKALPWEDYLPLDAQFPVAGKSVKSTLYSVPDCQAIVKKAIVNRVSEKYRRSGRLMETGAL FKLEVSILKDEVTLTIDTSGAGLHKRGYRLAQGSAPIKETMAAALVLLTSWHPDRPFYDPVCGSGTIPIE AALIGQNIAPGFNREFVSETWDWMPKQVWADARQEAEDLANYDQPLNIIGGDIDARLIEIAKQNAV EAGLGDLITFRQLQVADFQTEDEYGVVVANPPYGERLEDEEAVRQLYREMGIVYKRMPTWSVYVLTS YELFEEVYGKKATKKRKLYNGYLRTDLYQYWGPRKPRPKKED

>DM train480

MQRLDALLPTLRERAQETEDLRRIPDDSMKALQETGFFRLLQPEQWGGYQADPVLFYSAVRKIASAC GSTGWVSSIIGVHNWHLALFSQQAQEDVWGNDTDVRISSSYAPMGAGQVVDGGYTVNGAWAWS SGCDHASWAVLGGPVIKDGRPVDFVSFLIPREDYRIDDVWNVVGLRGTGSNTVVVEDVFVPTHRVLS FKAMSNLTAPGLERNTAPVYKMPWGTIHPTTISAPIVGMAYGAYDAHVEHQGKRVRAAFAGEKAKD DPFAKVRIAEASSDIDAAWRQLSGNVADEYALLVAGEEVPFELRLRARRDQVRATGRAISSIDKLFESS GATALANGTPLQRFWRDAHAGRVHAANDPERAYVMYGTGEFGLPITDTMV

#### >DM\_train482

MDINGGGATLPQALYQTSGVLTAGFAQYIGVGSGNGKAAFLNNDYTKFQAGVTNKNVHWAGSDS KLSATELSTYASAKQPTWGKLIQVPSVGTSVAIPFNKSGSAAVNLSVQELCGVFSGRINTWDGISGSG RTGPIVVVYRSESSGTTELFTRFLNAKCNAETGNFAVTTTFGTSFSGGLPAGAVAATGSQGVMTALAA GDGRITYMSPDFAAPTLAGLDDATKVARVGKNVATNTQGVSPAAANVSAAIGAVPVPAAADRSNP DAWVPVFGPDNTAGVQPYPTSGYPILGFTNLIFSQCYADATQTTQVRDFFTKHYGASNNNDAAITA NAFVPLPTAWKATVRASFLTASNALSIGNTNVCNGIGRPLLEAAHHHHHH

## >DM\_train483

HHHHHHTDPALRAAQQTPLYEQHTLCGARMVDFHGWMMPLHYGSQIDEHHAVRTDAGMFDVS HMTIVDLRGSRTREFLRYLLANDVAKLTKSGKALYSGMLNASGGVIDDLIVYYFTEDFFRLVVNSATRE KDLSWITQHAEPFGIEITVRDDLSMIAVQGPNAQAKAATLFNDAQRQAVEGMKPFFGVQAGDLFIAT TGYTGEAGYEIALPNEKAADFWRALVEAGVKPCGLGARDTLRLEAGMNLYGQEMDETISPLAANMG WTIAWEPADRDFIGREALEVQREHGTEKLVGLVMTEKGVLRNELPVRFTDAQGNQHEGIITSGTFSPT LGYSIALARVPEGIGETAIVQIRNREMPVKVTKPVFVRNGKAVAGLCGR

## >DM\_train484

MSTAVQFRGGTTAQHATFTGAAREITVDTDKNTVVVHDGATAGGFPLARHDLVKTAFIKADKSAVA FTRTGNATASIKAGTIVEVNGKLVQFTADTAITMPALTAGTDYAIYVCDDGTVRADSNFSAPTGYTSTT ARKVGGFHYAPGSNAAAQAGGNTTAQINEYSLWDIKFRPAALDPRGMTLVAGAFWADIYLLGVNH LTDGTSKYNVTIADGSASPKKSTKFGGDGSAAYSDGAWYNFAEVMTHHGKRLPNYNEFQALAFGTT EATSSGGTDVPTTGVNGTGATSAWNIFTSKWGVVQASGCLWTWGNEFGGVNGASEYTANTGGRG

### SVYAQPAAALFGGAWNGTSLSGSRAALWYSGPSFSFAFFGARGVCDHLILE

### >DM\_train488

MIQFSINRTLFIHALNTTKRAISTKNAIPILSSIKIEVTSTGVTLTGSNGQISIENTIPVSNENAGLLITSPGAI LLEASFFINIISSLPDISINVKEIEQHQVVLTSGKSEITLKGKDVDQYPRLQEVSTENPLILKTKLLKSIIAETA FAASLQESRPILTGVHIVLSNHKDFKAVATDSHRMSQRLITLDNTSADFMVVLPSKSLREFSAVFTDDIE TVEVFFSPSQILFRSEHISFYTRLLEGNYPDTDRLLMTEFETEVVFNTQSLRHAMERAFLISNATQNGTV KLEITQNHISAHVNSPEVGKVNEDLDIVSQSGSDLTISFNPTYLIESLKAIKSETVKIHFLSPVRPFTLTPGD EEESFIOLITPVRTN

### >DM train489

MELIEVQEGKAKILIPKAESIYDSPVFYNPRMALNRDIVVVLLNILNPKIVLDALSATGIRGIRFALETPAEE VWLNDISEDAYELMKRNVMLNFDGELRESKGRAILKGEKTIVINHDDANRLMAERHRYFHFIDLDPFG SPMEFLDTALRSAKRRGILGVTATDGAPLCGAHPRACLRKYLAVPLRGELCHEVGTRILVGVIARYAAK YDLGIDVILAYYKDHYFRAFVKLKDGARKGDETLEKLGYIYFDDKTGKFELEQGFLPTRPNAYGPVWLG PLKDEKIVSKMVKEAESLSLARKKQALKLLKMIDQELDIPLFYDTHAIGRRLKIETKKVEEIISALREQGYEA TRTHFSPTGIKTSAPYEVFIETIKRI

### >DM\_train490

MTKKRVALIFGGNSSEHDVSKRSAQNFYNAIEATGKYEIIVFAIAQNGFFLDTESSKKILALEDEQPIVDA FMKTVDASDPLARIHALKSAGDFDIFFPVVHGNLGEDGTLQGLFKLLDKPYVGAPLRGHAVSFDKALT KELLTVNGIRNTKYIVVDPESANNWSWDKIVAELGNIVFVKAANQGSSVGISRVTNAEEYTEALSDSF QYDYKVLIEEAVNGARELEVGVIGNDQPLVSEIGAHTVPNQGSGDGWYDYNNKFVDNSAVHFQIPA QLSPEVTKEVKQMALDAYKVLNLRGEARMDFLLDENNVPYLGEPNTLPGFTNMSLFKRLWDYSDIN NAKLVDMLIDYGFEDFAQNKKLSYSFVSLGEEKIGKFN

>DM\_train491

GLKEHDFNPEEAEETKQVSWKLVTEYAMETKCDDVLLLLGMYLEFQYSFEMCLKCIKKEQPSHYKYHE KHYANAAIFADSKNQKTICQQAVDTVLAKKRVDSLQLTREQMLTNRFNDLLDRMDIMFGSTGSADIE EWMAGVAWLHCLLPKMDSVVYDFLKCMVYNIPKKRYWLFKGPIDSGKTTLAAALLELCGGKALNVN LPLDRLNFELGVAIDQFLVVFEDVKGTGGESRDLPSGQGINNLDNLRDYLDGSVKVNLEKKHLNKRTQ IFPPGIVTMNEYSVPKTLQARFVKQIDFRPKDYLKHCLERSEFLLEKRIIQSGIALLLMLIWYRPVAEFAQS IOSRIVEWKERLDKEFSLSVYOKMKFNVAMGIGVLD

#### >DM train492

GMKSAPDWIAHPDTPYLLIDEAKLKSNINYLKQRVESLGSHLRPHLKTLRTLEAAGYLLDSKSAPATVST LAEAEAYAKAGYTDLLYAVGIAPAKLKRVAALRQQGINLHILLDNITQAQAVVDYAAEFGQDFSVFIEI DSDDHRGGIKPSDSKLLTIAKTLGEHFTGLMTHAGGSYACNTEQGLKNFAKQECDAVRIARNNLETA GIHCAITSVGSTPTAHFGEDFSDISEVRAGVYTTFDLVMKNIGVCDFSHIAMSVVTTVIGHNKEKNWLL TDSGWMALSRDSGTAGQNRDFGYGQVCKIDGSVLDGLCVNSTSQEHGVIELSDAYQLEDFPVGHQ LRIMPNHACATAAMHPVYHVLMSDGSHNTWQRITGW

#### >DM\_train493

MREWKIIDSTLREGEQFEKANFSTQDKVEIAKALDEFGIEYIEVTTPVASPQSRKDAEVLASLGLKAKVV THIQCRLDAAKVAVETGVQGIDLLFGTSKYLRAPHGRDIPRIIEEAKEVIAYIREAAPHVEVRFSAEDTFR SEEQDLLAVYEAVAPYVDRVGLADTVGVATPRQVYALVREVRRVVGPRVDIEFHGHNDTGCAIANA YEAIEAGATHVDTTILGIGERNGITPLGGFLARMYTLQPEYVRRKYKLEMLPELDRMVARMVGVEIPFN NYITGETAFSHKAGMHLKAIYINPEAYEPYPPEVFGVKRKLIIASRLTGRHAIKARAEELGLHYGEEELHR VTQHIKALADRGQLTLEELDRILREWITA

## >DM train495

MSLTREAYHRLTPLPHPGGRLFIKPGARGYRDPVHDLLQKTVEPFGERALDLNPGVGWGSLPLEGRM AVERLETSRAAFRCLTASGLQARLALPWEAAAGAYDLVVLALPAGRGTAYVQASLVAAARALRMGG

RLYLAGDKNKGFERYFKEARALLGYGVVVRREGPYRVALLEKEKEAPPLPSLWRAFSARILGAEYTFHHL PGVFSAGKVDPASLLLLEALQERLGPEGVRGRQVLDLGAGYGALTLPLARMGAEVVGVEDDLASVLS LQKGLEANALKAQALHSDVDEALTEEARFDIIVTNPPFHVGGAVILDVAQAFVNVAAARLRPGGVFFL VSNPFLKYEPLLEEKFGAFQTLKVAEYKVLFAEKRGR

MENFPTEYFLNTTVRLLEYIRYRDSNYTREERIENLHYAYNKAAHHFAQPRQQQLLKVDPKRLQASLQ TIVGMVVYSWAKVSKECMADLSIHYTYTLVLDDSKDDPYPTMVNYFDDLQAGREQAHPWWALVNE HFPNVLRHFGPFCSLNLIRSTLDFFEGCWIEQYNFGGFPGSHDYPQFLRRMNGLGHCVGASLWPKEQ FNERSLFLEITSAIAQMENWMVWVNDLMSFYKEFDDERDQISLVKNYVVSDEISLHEALEKLTQDTLH SSKQMVAVFSDKDPQVMDTIECFMHGYVTWHLCDRRYRLSEIYEKVKEEKTEDAQKFCKFYEQAAN VGAVSPSEWAYPPVAQLANVRSKDVKEVOKPFLSSIELVE

MTWKNFGFEIFGEKYGQEELEKRIKDEHTPPPDSPVFGGLKLKLKKEKFKTLFTLGTTLKGFRRATHTVG TGGIGEITIVNDPKFPEHEFFTAGRTFPARLRHANLKYPDDAGADARSFSIKFADSDSDGPLDIVMNTG EANIFWNSPSLEDFVPVEEGDAAEEYVYKNPYYYYNLVEALRRAPDTFAHLYYYSQVTMPFKAKDGKV RYCRYRALPGDVDIKEEDESGRLTEEEQRKIWIFSRHENEKRPDDYLRKEYVERLQKGPVNYRLQIQIHE ASPDDTATIFHAGILWDKETHPWFDLAKVSIKTPLSPDVLEKTAFNIANQPASLGLLEAKSPEDYNSIGE LRVAVYTWVOHLRKLKIGSLVPAGONA

MGSDKIHHHHHHMTSSPTSTQESSTSWYLLLQQLIDGESLSRSQAAELMQGWLSEAVPPELSGAILT ALNFKGVSADELTGMAEVLQSQSKMGTGENYSQLPITNSPFSIIDTCGTGGDGSSTFNISTAVAFVAA AYGVPVAKHGNRSASSLTGSADVLEALGVNLGASPEKVQAALQEVGITFLFAPGWHPALKAVATLRR TLRIRTVFNLLGPLVNPLRPTGQVVGLFTPKLLTTVAQALDNLGKQKAIVLHGRERLDEAGLGDLTDLA VLSDGELQLTTINPQEVGVTPAPIGALRGGDVQENAEILKAVLQGKGTQAQQDAVALNAALALQVA GAVPLLDHAQGVSVAKEILQTGTAWAKLAQLVYFLGN

MIVAFCLYKYFPFGGLQRDFMRIASTVAARGHHVRVYTQSWEGDCPKAFELIQVPVKSHTNHGRNA EYYAWVQNHLKEHPADRVVGFNKMPGLDVYFAADVCYAEKVAQEKGFLYRLTSRYRHYAAFERATF EQGKSTKLMMLTDKQIADFQKHYQTEPERFQILPPGIYPDRKYSEQIPNSREIYRQKNGIKEQQNLLLQ VGSDFGRKGVDRSIEALASLPESLRHNTLLFVVGQDKPRKFEALAEKLGVRSNVHFFSGRNDVSELMA AADLLLHPAYQEAAGIVLLEAITAGLPVLTTAVCGYAHYIADANCGTVIAEPFSQEQLNEVLRKALTQS PLRMAWAENARHYADTQDLYSLPEKAADIITGGLDG

GHEIKDIREDTMHAEFNALRAQVAINDGNPDEAERLAKLALEELPPGWFYSRIVATSVLGEVLHCKGEL TRSLALMQQTEQMARQHDVWHYALWSLIQQSEILFAQGFLQTAWETQEKAFQLINEQHLEQLPMH EFLVRIRAQLLWAWARLDEAEASARSGIEVLSSYQPQQQLQCLAMLIQCSLARGDLDNARSQLNRLE NLLGNGKYHSDWISNANKVRVIYWQMTGDKAAAANWLRHTAKPEFANNHFLQGQWRNIARAQIL LGEFEPAEIVLEELNENARSLRLMSDLNRNLLLLNQLYWQAGRKSDAQRVLLDALKLANRTGFISHFVI EGEAMAQQLRQLIQLNTLPELEQHRAQRILREINQHHGA

MAAVTLHLRAETKPLEARAALTPTTVKKLIAKGFKIYVEDSPQSTFNINEYRQAGAIIVPAGSWKTAPRD RIIIGLKEMPETDTFPLVHEHIQFAHCYKDQAGWQNVLMRFIKGHGTLYDLEFLENDQGRRVAAFGFY AGFAGAALGVRDWAFKQTHSDDEDLPAVSPYPNEKALVKDVTKDYKEALATGARKPTVLIIGALGRC GSGAIDLLHKVGIPDANILKWDIKETSRGGPFDEIPQADIFINCIYLSKPIAPFTNMEKLNNPNRRLRTVV DVSADTTNPHNPIPIYTVATVFNKPTVLVPTTAGPKLSVISIDHLPSLLPREASEFFSHDLLPSLELLPQRK TAPVWVRAKKLFDRHCARVKRSSRL

MGNSYITKEDNQISATSEQTEDSACLSAMVLTTNLVYPAVLNAAIDLNLFEIIAKATPPGAFMSPSEIAS KLPASTQHSDLPNRLDRMLRLLASYSVLTSTTRTIEDGGAERVYGLSMVGKYLVPDESRGYLASFTTFL CYPALLQVWMNFKEAVVDEDIDLFKNVHGVTKYEFMGKDKKMNQIFNKSMVDVCATEMKRMLEIY TGFEGISTLVDVGGGSGRNLELIISKYPLIKGINFDLPQVIENAPPLSGIEHVGGDMFASVPQGDAMILK AVCHNWSDEKCIEFLSNCHKALSPNGKVIIVEFILPEEPNTSEESKLVSTLDNLMFITVGGRERTEKQYEK LSKLSGFSKFOVACRAFNSLGVMEFYK

DPFAGDPPRHPGLRVNSQKPFNAEPPAELLAERFLTPNELFFTRNHLPVPAVEPSSYRLRVDGPGGRT LSLSLAELRSRFPKHEVTATLQCAGNRRSEMSRVRPVKGLPWDIGAISTARWGGARLRDVLLHAGFPE ELQGEWHVCFEGLDADPGGAPYGASIPYGRALSPAADVLLAYEMNGTELPRDHGFPVRVVVPGVVG ARSVKWLRRVAVSPDESPSHWQQNDYKGFSPCVDWDTVDYRTAPAIQELPVQSAVTQPRPGAAVP PGELTVKGYAWSGGGREVVRVDVSLDGGRTWKVARLMGDKAPPGRAWAWALWELTVPVEAGTEL EIVCKAVDSSYNVQPDSVAPIWNLRGVLSTAWHRVRVSVQD

SPEVTMNISQMITYWGYPNEEYEVVTEDGYILEVNRIPYGKKNSGNTGQRPVVFLQHGLLASATNWIS NLPNNSLAFILADAGYDVWLGNSRGNTWARRNLYYSPDSVEFWAFSFDEMAKYDLPATIDFIVKKTG QKQLHYVGHSQGTTIGFIAFSTNPSLAKRIKTFYALAPVATVKYTKSLINKLRFVPQSLFKFIFGDKIFYPH NFFDQFLATEVCSREMLNLLCSNALFIICGFDSKNFNTSRLDVYLSHNPAGTSVQNMFHWTQAVKSG KFQAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPIAVWNGGKDLLADPQDVGLLLPKLPNLIYHK EIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKK

MAHHHHHMNILQEPIDFLKKEELKNIDLSQMSKKERYKIWKRIPKCELHCHLDLCFSADFFVSCIRKY NLQPNLSDEEVLDYYLFAKGGKSLGEFVEKAIKVADIFHDYEVIEDLAKHAVFNKYKEGVVLMEFRYSPT FVAFKYNLDIELIHQAIVKGIKEVVELLDHKIHVALMCIGDTGHEAANIKASADFCLKHKADFVGFDHG GHEVDLKEYKEIFDYVRESGVPLSVHAGEDVTLPNLNTLYSAIQVLKVERIGHGIRVAESQELIDMVKEK NILLEVCPISNVLLKNAKSMDTHPIRQLYDAGVKVSVNSDDPGMFLTNINDDYEELYTHLNFTLEDFM KMNEWALEKSFMDSNIKDKIKNLYF

WDGKIDGTGTHAMIVTQGVSILENDLSKNEPESVRKNLEILKENMHELQLGSTYPDYDKNAYDLYQD HFWDPDIDNNFSKDNSWYLAYSIPDTGESQIRKFSALARYEWQRGNYKQATFYLGEAMHYFGDIDT

PYHPANVTAVDSAGHVKFETFAEERKEQYKINTAGCKTNEAFYTDILKNKDFNAWSKEYARGFAKTG KSIYYSHASMSHSWDDWDYAAKVTLANSQKGTAGYIYRFLHDVSEGNDPSVGKNVKELVAYISTSGE KDAGTDDYMYFGIKTKDGKTQEWEMDNPGNDFMTGSKDTYTFKLKDENLKIDDIQNMWIRKRKYT AFPDAYKPENIKIIANGKVVVDKDINEWISGNSTYNIK

MSTDIDCIVIGAGVVGLAIARALAAGGHEVLVAEAAEGIGTGTSSRNSEVIHAGIYYPADSLKARLCVR GKHLLYEYCAARGVPHQRLGKLIVATSDAEASQLDSIARRAGANGVDDLQHIDGAAARRLEPALHCT AALVSPSTGIVDSHALMLAYQGDAESDGAQLVFHTPLIAGRVRPEGGFELDFGGAEPMTLSCRVLINA AGLHAPGLARRIEGIPRDSIPPEYLCKGSYFTLAGRAPFSRLIYPVPQHAGLGVHLTLDLGGQAKFGPDT EWIATEDYTLDPRRADVFYAAVRSYWPALPDGALAPGYTGIRPKISGPHEPAADFAIAGPASHGVAGL VNLYGIESPGLTASLAIAEETLARLAA

KERRRAVLELLQRPGNARCADCGAPDPDWASYTLGVFICLSCSGIHRNIPQVSKVKSVRLDAWEEAQ VEFMASHGNDAARARFESKVPSFYYRPTPSDCQLLREQWIRAKYERQEFIYPEKQEPYSAGYREGFLW KRGRDNGQFLSRKFVLTEREGALKYFNRNDAKEPKAVMKIEHLNATFQPAKIGHPHGLQVTYLKDNS TRNIFIYHEDGKEIVDWFNALRAARFHYLQVAFPGASDADLVPKLSRNYLKEGYMEKTGPKQTEGFRK RWFTMDDRRLMYFKDPLDAFARGEVFIGSKESGYTVLHGFPPSTQGHHWPHGITIVTPDRKFLFACET ESDOREWVAAFOKAVDRPMLPOEYAVEAHF

>DM\_train514

GMRVDKHEVRVGELAAGQPLSLPVYRFKGKGAGPSVYIQANVHGAEVQGNAVIYQLMKLLEHYELL GDISLVPLANPLGINQKSGEFTLGRFDPITGVNWNREYLDHGFNIEVWYQEHSHLDDDTLITAFRATL VEECARRLNNPWGVTTGHRLAVTLQSMAHRADIVLDLHTGPKSCKHLYCPEYERSAAQYFSIPYTLLI PNSFGGAMDEAAFVPWWTLAEVASSHGRELGVRVSALTLELGSQERIDLDDALEDAEGILAYLSHRG VIAETVLPKPMKRYGCFLKNYRKFHAPKAGMVEYLGKVGVPMKATDPLVNLLRLDLYGTGEELTVLRL PEDGVPILHFASASVHQGTELYKVMTKVFEL

MPNPPAKEDTWAFGPIGSPFPDNPVKALGQQNMYVALWYKNGRPMHGRAWNNGGVIECSFPYN KSELTGVKDLGGQIQVLQYKGNHLSLGYWYNWIKYSDRFDKMDKGAEMLRCGDSFPILWSERPGGA LLGYADNKTEIARFSHDGKVDEVSGSALANMLIIARELKGGPPYCECEECKSEPPKPIVRVTLNEWADF RCGDPWPTVGTPVRALGRSLDTLPGENPDQYVALWYQSGEPVMGRIWNDGGKIAACFGWGGHEY RQKIGSIQILYELPEAIRGFDYDWKPFPEAAQFGAKEWIPVHVDHHKGNISPAVLIVDGKEILGKADIRN ERATIGYGGTEKVLVGPAVHSCMVLCRKAKPGCTID

>DM train518

ASHSRKFLDVRSEEELLSCIKKETEAGKLPPNVAAGMEELYQNYRNAVIESGNPKADEIVLSNMTVALD RILLDVEDPFVFSSHHKAIREPFDYYIFGQNYIRPLIDFGNSFVGNLSLFKDIEEKLQQGHNVVLISNHQT EADPAIISLLLEKTNPYIAENTIFVAGDRVLADPLCKPFSIGRNLICVYSKKHMFDIPELTETKRKANTRSLK EMALLLRGGSQLIWIAPSGGRDRPDPSTGEWYPAPFDASSVDNMRRLIQHSDVPGHLFPLALLCHDI MPPPSQVEIEIGEKRVIAFNGAGLSVAPEISFEEIAATHKNPEEVREAYSKALFDSVAMQYNVLKTAISG KQGLGASTADVSLSQPW

MKMKLAVLPGDGIGPEVMDAAIRVLKTVLDNDGHEAVFENALIGGAAIDEAGTPLPEETLDICRRSDA ILLGAVGGPKWDHNPASLRPEKGLLGLRKEMGLFANLRPVKAYATLLNASPLKRERVENVDLVIVRELT GGLYFGRPSERRGPGENEVVDTLAYTREEIERIIEKAFQLAQIRRKKLASVDKANVLESSRMWREIAEET AKKYPDVELSHMLVDSTSMQLIANPGQFDVIVTENMFGDILSDEASVITGSLGMLPSASLRSDRFGMY EPVHGSAPDIAGQGKANPLGTVLSAALMLRYSFGLEKEAAAIEKAVDDVLQDGYCTGDLQVANGKV VSTIELTDRLIEKLNNSAARPRIFQ

>DM train522

MGSSHHHHHHSSGLVSRRHMNIDMAALHAIEVDRGISVNELLETIKSALLTAYRHTQGHQTDARIEID RKTGVVRVIARETDEAGNLISEWDDTPEGFGRIAATTARQVMLQRFRDAENERTYGEFSTREGEIVAG VIQRDSRANARGLVVVRIGTETKASEGVIPAAEQVPGESYEHGNRLRCYVVGVTRGAREPLITLSRTHP NLVRKLFSLEVPEIADGSVEIVAVAREAGHRSKIAVRSNVAGLNAKGACIGPMGQRVRNVMSELSGEK IDIIDYDDDPARFVANALSPAKVVSVSVIDQTARAARVVVPDFQLSLAIGKEGQNARLAARLTGWRIDI RGDAPPPPPGQPEPGVSRGMAHDR

MPYRNCWSKIMKKLINDVQDVLDEQLAGLAKAHPSLTLHQDPVYVTRADAPVAGKVALLSGGSG HEPMHCGYIGQGMLSGACPGEIFTSPTPDKIFECAMQVDGGEGVLLIIKNYTGDILNFETATELLHDSG VKVTTVVIDDDVAVKDSLYTAGRRGVANTVLIEKLVGAAAERGDSLDACAELGRKLNNQGHSIGIALG ACTVPAAGKPSFTLADNEMEFGVGIHGEPGIDRRPFSSLDQTVDEMFDTLLVNGSYHRTLRFWDYQ QGSWQEEQQTKQPLQSGDRVIALVNNLGATPLSELYGVYNRLTTRCQQAGLTIERNLIGAYCTSLDM TGFSITLLKVDDETLALWDAPVHTPALNWGK

AVPATIPLTITNNSGRAEQIHIYNLGTELSSGRQGWADASGAFHPWPAGGNPPTPAPDASIPGPAPG RSTTIQIPKFSGRIYFSYGRKMEFRLTTGGLVQPAVQNPTDPNRDILFNWSEYTLNDSGLWINSTQVD MFSAPYTVGVRRGDGTTLSTGKLRPGGYNGVFNALRGQSGGWANLIQTRSDGTVLRALSPLYGVET GALPASVMDDYINRVWNKYTGTDLIVTPFADRPDVRYTGRVSGGVLRFTDGSGAVVTTFQKPDASS VFGCHRLLDAPNDQVRGPISRTLCAGFNRTTLLANPHQPDRSAAGFYQEPVTNHYARIIHAHMADG KAYGFAFDDVGHHESLVHDGDPRGASLTLDPFD

>DM train526

KKCKYSFKCVNSLKEDHNQPLFGVQFNWHSKEGDPLVFATVGSNRVTLYECHSQGEIRLLQSYVDAD ADENFYTCAWTYDSNTSHPLLAVAGSRGIIRIINPITMQCIKHYVGHGNAINELKFHPRDPNLLLSVSK DHALRLWNIQTDTLVAIFGGVEGHRDEVLSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKESY DYNPNKTNRPFISQKIHFPDFSTRDIHRNYVDCVRWLGDLILSKSCENAIVCWKPGKMEDDIDKIKPSE SNVTILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVGKLYVWDLEVEDPHKAKCTTLTHHKCGA AIRQTSFSRDSSILIAVCDDASIWRWDRLR

>DM\_train528

ESDSEMVPFPQLPMPIENNYRACTIPYRFPSDDPKKATPNEISWINVFANSIPSFKKRAESDITVPDAPA RAEKFAERYAGILEDLKKDPESHGGPPDGILLCRLREQVLRELGFRDIFKKVKDEENAKAISLFPQVVSLS

DAIEDDGKRLENLVRGIFAGNIFDLGSAQLAEVFSRDGMSFLASCQNLVPRPWVIDDLENFQAKWIN KSWKKAVIFVDNSGADIILGILPFARELLRRGAQVVLAANELPSINDITCTELTEILSQLKDENGQLLGVD TSKLLIANSGNDLPVIDLSRVSQELAYLSSDADLVIVEGMGRGIETNLYAQFKCDSLKIGMVKHLEVAEF LGGRLYDCVFKFNEVQS

#### >DM\_train529

MKPHALIGLLAGMLLSSSLYAADSTKPLPLHIGGRVLVESPANQPVSYTYSWPAVYFETAFKGQSLTLK FDDDQNIFRLIVDDKAPVVINKPGKVDYPVESLAPGKHRVRLEKLTETQSTSGRFLGFYTDPSAKPLALP KRKRQIEFIGDSFTVGYGNTSPSRECTDEELFKTTNSQMAFGPLTAKAFDADYQINASSGFGIVRNYNG TSPDKSLLSLYPYTLNNPDQLYHNKHWKPQVIVIGLGTNDFSTALNDNERWKTREALHADYVANYVK FVKQLHSNNARAQFILMNSDQSNGEIAEQVGKVVAQLKGGGLHQVEQIVFKGLDYSGCHWHPSAN DDQLLANLLITHLQQKKGIWLEHHHH

#### >DM train530

MVVEGVKTDFGPPYFRDLLHPVIAKNYGKWKYHEVVKPGVIKRVAESGDVIYVVRFGTPRLLSIYTVRE LCDIADKYSDGYLRWTSRNNVEFFVTDESKIDDLINEVQERVGFPCGGTWDAVKGEYGLSNIVHTQG WIHCHTPAIDASGIVKAVMDELYEYFTDHKLPAMCRISLACCANMCGAVHASDIAIVGIHRTPPIPND EAIRKTCEIPSTVAACPTGALKPDMKNKTIKVDVEKCMYCGNCYTMCPGMPLFDPENDGAAIMVGG KLSEARRMPELSKVVVPWVPNEPPRWPTLVKYVKQILEAWAANANKHERLIEWVDRIGWERFFELTG LEFTOHLIDDYRITPYFYSEFRASTOFKW

## >DM\_train533

NVIDLFSGVGGLSLGAARAGFDVKMAVEIDQHAINTHAINFPRSLHVQEDVSLLNAEIIKGFFKNDMPI DGIIGGPPCQGFSSIGKGNPDDSRNQLYMHFYRLVSELQPLFFLAENVPGIMQEKYSGIRNKAFNLVS GDYDILDPIKVKASDYGAPTIRTRYFFIGVKKSLKLDISDEVFMPKMIDPVTVKDALYGLPDIIDANWQS DSESWRTIKKDRKGGFYEKLWGQIPRNVGDTESIAKLKNNIISGCTGTLHSKIVQERYASLSFGETDKISR STRLDPNGFCPTLRAGTARDKGSFQAVRPIHPYHPRVITPREAARLQGFPDWFRFHVTKWHSFRQIG NSVSPIVAEYILKGLYNLLN

MTSRVDPANPGSELDSAIRDTLTYSNSPVPNALLTASESGFLDAAGIELDVLSGQQGTVHFTYDQPAY TRFGGEIPPLLSEGLRAPGRTRLLGITPLLGRQGFFVRDDSPITAAADLAGRRIGVSASAIRILRGQLGDY LELDPWRQTLVALGSWEARALLHTLEHGELGVDDVELVPISSPGVDVPAEQLEESATVKGADLFPDVA RGQAAVLASGDVDALYSWLPWAGELQATGARPVVDLGLDERNAYASVWTVSSGLVRQRPGLVQR LVDAAVDAGLWARDHSDAVTSLHAANLGVSTGAVGQGFGADFQQRLVPRLDHDALALLERTQQF LLTNNLLQEPVALDQWAAPEFLNNSLNRHR

>DM train536

MMSGQGKRLMVMAGGTGGHVFPGLAVAHHLMAQGWQVRWLGTADRMEADLVPKHGIEIDFIRI SGLRGKGIKALIAAPLRIFNAWRQARAIMKAYKPDVVLGMGGYVSGPGGLAAWSLGIPVVLHEQNGI AGLTNKWLAKIATKVMQAFPGAFPNAEVVGNPVRTDVLALPLPQQRLAGREGPVRVLVVGGSQGA RILNQTMPQVAAKLGDSVTIWHQSGKGSQQSVEQAYAEAGQPQHKVTEFIDDMAAAYAWADVVV CRSGALTVSEIAAAGLPALFVPFQHKDRQQYWNALPLEKAGAAKIIEQPQLSVDAVANTLAGWSRET LLTMAERARAASIPDATERVANEVSRVARALEHHHHHH

MGFKCGIVGLPNVGKSTLFNALTKAGIEAANYPFCTIEPNTGVVPMPDPRLDALAEIVKPERILPTTMEF VDIAGLVAGASKGEGLGNKFLANIRETDAIGHVVRCFENDDIVHVAGKIDPLDDIDTINTELALADLDS CERAIQRLQKRAKGGDKEAKFELSVMEKILPVLENAGMIRSVGLDKEELQAIKSYNFLTLKPTMYIANV NEDGFENNPYLDRVREIAAKEGAVVVPVCAAIESEIAELDDEEKVEFLQDLGIEEPGLNRVIRAGYALLN LQTYFTAGVKEVRAWTVSVGATAPKAAAVIHTDFEKGFIRAEVIAYEDFIQFNGENGAKEAGKWRLEG KDYIVQDGDVMHFRFNV

>DM train539

MFQPLLDAYVESASIEKMASKSPPPLKIAVANWWGDEEIKEFKNSVLYFILSQRYTITLHQNPNEFSDL VFGNPLGSARKILSYQNAKRVFYTGENESPNFNLFDYAIGFDELDFNDRYLRMPLYYDRLHHKAESVN DTTAPYKLKDNSLYALKKPSHCFKEKHPNLCAVVNDESDPLKRGFASFVASNPNAPIRNAFYDALNSI EPVTGGGSVRNTLGYNVKNKNEFLSQYKFNLCFENTQGYGYVTEKIIDAYFSHTIPIYWGSPSVAKDFN PKSFVNVHDFKNFDEAIDYIKYLHTHKNAYLDMLYENPLNTLDGKAYFYQNLSFKKILAFFKTILENDTI YHDNPFIFCRDLNEPLVTI

>DM train540

MHSFASLLAYGLVAGATFASASPIEARDSCTFTTAAAAKAGKAKCSTITLNNIEVPAGTTLDLTGLTSGT KVIFEGTTTFQYEEWAGPLISMSGEHITVTGASGHLINCDGARWWDGKGTSGKKKPKFFYAHGLDSSS ITGLNIKNTPLMAFSVQANDITFTDVTINNADGDTQGGHNTDAFDVGNSVGVNIIKPWVHNQDDC LAVNSGENIWFTGGTCIGGHGLSIGSVGDRSNNVVKNVTIEHSTVSNSENAVRIKTISGATGSVSEITYS NIVMSGISDYGVVIQQDYEDGKPTGKPTNGVTIQDVKLESVTGSVDSGATEIYLLCGSGSCSDWTWD DVKVTGGKKSTACKNFPSVASC

>DM\_train541

SVNNSQLVVSVAGTVEGTNQDISLKFFEIDLTSRPAHGGKTEQGLSPKSKPFATDSGAMPHKLEKADL LKAIQEQLIANVHSNDDYFEVIDFASDATITDRNGKVYFADKDGSVTLPTQPVQEFLLSGHVRVRPYKE KPIQNQAKSVDVEYTVQFTPLNPDDDFRPGLKDTKLLKTLAIGDTITSQELLAQAQSILNKTHPGYTIYE RDSSIVTHDNDIFRTILPMDQEFTYHVKNREQAYEINKKSGLNEEINNTDLISEKYYVLKKGEKPYDPFD RSHLKLFTIKYVDVNTNELLKSEQLLTASERNLDFRDLYDPRDKAKLLYNNLDAFGIMDYTLTGKVEDN HDDTNRIITVYMGKRP

>DM train542

ALTVSAGTKSKLAKPIQDLIKMIFDVESMKKAMVEFEIDLQKMPLGKLSKRQIQSAYSILNEVQQAVSD GGSESQILDLSNRFYTLIPHDFGMKKPPLLSNLEYIQAKVQMLDNLLDIEVAYSLLRGGNEDGDKDPIDI NYEKLRTDIKVVDKDSEEAKIIKQYVKNTHAATHNAYDLKVVEIFRIEREGESQRYKPFKQLHNRQLLW HGSRTTNFAGILSQGLRIAPPEAPVTGYMFGKGIYFADMVSKSANYCHTSQADPIGLILLGEVALGNM YELKNASHITKLPKGKHSVKGLGKTAPDPTATTTLDGVEVPLGNGISTGINDTCLLYNEYIVYDVAQVN LKYLLKLKFNYKTSLW

>DM train544

VKQVFNFNAGPSALPKPALERAQKELLNFNDTQMSVMELSHRSQSYEEVHEQAQNLLRELLQIPND YQILFLQGGASLQFTMLPMNLLTKGTIGNYVLTGSWSEKALKEAKLLGETHIAASTKANSYQSIPDFSEF

QLNENDAYLHITSNNTIYGTQYQNFPEINHAPLIADMSSDILSRPLKVNQFGMIYAGAQKNLGPSGVT VVIVKKDLLNTKVEQVPTMLQYATHIKSDSLYNTPPTFSIYMLRNVLDWIKDLGGAEAIAKQNEEKAKII YDTIDESNGFYVGHAEKGSRSLMNVTFNLRNEELNQQFLAKAKEQGFVGLNGHRSVGGCRASIYNA VPIDACIALRELMIOFKENA

#### >DM\_train545

PPFPWFGMDIGGTLVKLVYFEPKDITAEEEQEEVENLKSIRKYLTSNTAYGKTGIRDVHLELKNLTMCGR KGNLHFIRFPSCAMHRFIQMGSEKNFSSLHTTLCATGGGAFKFEEDFRMIADLQLHKLDELDCLIQGLL YVDSVGFNGKPECYYFENPTNPELCQKKPYCLDNPYPMLLVNMGSGVSILAVYSKDNYKRVTGTSLG GGTFLGLCCLLTGCETFEEALEMAAKGDSTNVDKLVKDIYGGDYERFGLQGSAVASSFGNMMSKEKR DSISKEDLARATLVTITNNIGSIARMCALNENIDRVVFVGNFLRINMVSMKLLAYAMDFWSKGQLKAL FLEHEGYFGAVGALLELFK

#### >DM train546

SCDLNATNYIRGCQSKTYDGKIFPGKGGEKQWICKDTIIHGDTNGACIPPRTQNLCVGELWDKSYGG RSNIKNDTKELLKEKIKNAIHKETELLYEYHDTGTAIISKNDKKGQKGKNDPNGLPKGFCHAVQRSFIDY KNMILGTSVNIYEHIGKLQEDIKKIIEKGTPQQKDKIGGVGSSTENVNAWWKGIEREMWDAVRCAITKI NKKNNNSIFNGDECGVSPPTGNDEDQSVSWFKEWGEQFCIERLRYEQNIREACTINGKNEKKCINSK SGQGDKIQGACKRKCEKYKKYISEKKQEWDKQKTKYENKYVGKSASDLLKENYPECISANFDFIFNDNI EYKTYYPYGDYSSICSCE

## >DM\_train547

MRGSHHHHHHGSLVPRGSMVAADAPAAGTDITNQLTNVTVGIDSGTTVYPHQAGYVKLNYGFSVP NSAVKGDTFKITVPKELNLNGVTSTAKVPPIMAGDQVLANGVIDSDGNVIYTFTDYVNTKDDVKATLT MPAYIDPENVKKTGNVTLATGIGSTTANKTVLVDYEKYGKFYNLSIKGTIDQIDKTNNTYRQTIYVNPS GDNVIAPVLTGNLKPNTDSNALIDQQNTSIKVYKVDNAADLSESYFVNPENFEDVTNSVNITFPNPN QYKVEFNTPDDQITTPYIVVVNGHIDPNSKGDLALRSTLYGYNSNIIWRSMSWDNEVAFNNGSGSG DGIDKPVVPEOPDEPGEIEPIPEK

>DM train548

MIESKTYAVLGLGNGGHAFAAYLALKGQSVLAWDIDAQRIKEIQDRGAIIAEGPGLAGTAHPDLLTSDI GLAVKDADVILIVVPAIHHASIAANIASYISEGQLIILNPGATGGALEFRKILRENGAPEVTIGETSSMLFT CRSERPGQVTVNAIKGAMDFACLPAAKAGWALEQIGSVLPQYVAVENVLHTSLTNVNAVMHPLPTL LNAARCESGTPFQYYLEGITPSVGSLAEKVDAERIAIAKAFDLNVPSVCEWYKESYGQSPATIYEAVQG NPAYRGIAGPINLNTRYFFEDVSTGLVPLSELGRAVNVPTPLIDAVLDLISSLIDTDFRKEGRTLEKLGLSG LTAAGIRSAVE

>DM train549

MGDVRLSALSTLNYRNLAPGTLNFPEGVTGIYGENGAGKTNLLEAAYLALTGQTDAPRIEQLIQAGET EAYVRADLQQGGSLSIQEVGLGRGRRQLKVDGVRARTGDLPRGGAVWIRPEDSELVFGPPSGRRAYL DSLLSRLSARYGEQLSRYERTVSQRNAALRGGEEWAMHVWDDVLLKLGTEIMLFRRRALTRLDELARE ANAQLGSRKTLALTLTESTSPETYAADLRGRRAEELARGSTVTGPHRDDLLLTLGDFPASDYASRGEGR TVALALRRAELELLREKFGEDPVLLLDDFTAELDPHRRQYLLDLAASVPQAIVTGTELAPGAALTLRAQ AGRFTPVADEEMOAEGTA

>DM train550

PGDVVIEELFNRIPQANVRTTSEYMQSAADSLVSTSLWNTGQPFRVESELGERPRTLVRGTVLGQEDP YAYLEATDQETGESFEVHVPYFTERPPSNAIKQMKEEVLRLRLLRGIKNQKQAKVHLRFIFPFDLVKDP QKKKMIRVRLDERDMWVLSRFFLYPRMQSNLQTFGEVLLSHSSTHKSLVHHARLQLTLQVIRLLASLH HYGLVHTYLRPVDIVLDQRGGVFLTGFEHLVRDGARVVSSVSRGFEPPELEARRATISYHRDRRTLMTF SFDAWALGLVIYWIWCADLPITKDAALGGSEWIFRSCKNIPQPVRALLEGFLRYPKEDRLLPLQAMETP EYEQLRTELSAALPLY

>DM train551

MKIAILGAGCYRTHAAAGITNFMRACEVAKEVGKPEIALTHSSITYGAELLHLVPDVKEVIVSDPCFAEE PGLVVIDEFDPKEVMEAHLSGNPESIMPKIREVVKAKAKELPKPPKACIHLVHPEDVGLKVTSDDREAV EGADIVITWLPKGNKQPDIIKKFADAIPEGAIVTHACTIPTTKFAKIFKDLGREDLNITSYHPGCVPEMKG QVYIAEGYASEEAVNKLYEIGKIARGKAFKMPANLIGPVCDMCSAVTATVYAGLLAYRDAVTKILGAPA DFAQMMADEALTQIHNLMKEKGIANMEEALDPAALLGTADSMCFGPLAEILPTALKVLEKHKVVEEE GKTKCEIMSQKE

>DM train552

MAVKEATSETKKRSGYEIITLTSWLLQQEQKGIIDAELTIVLSSISMACKQIASLVQRANISNLTGTQGAV NIQGEDQKKLDVISNEVFSNCLRSSGRTGIIASEEEDVPVAVEESYSGNYIVVFDPLDGSSNLDAAVST GSIFGIYSPNDESLPDFGDDSDDNTLGTEEQRCIVNVCQPGSNLLAAGYCMYSSSVIFVLTIGKGVFVF TLDPLYGEFVLTQENLQIPKSGKIYSFNEGNYKLWDENLKKYIDDLKEPGPSGKPYSARYIGSLVGDFHR TLLYGGIYGYPRDKKSKNGKLRLLYECAPMSFIVEQAGGKGSDGHQRVLDIQPTEIHQRVPLYIGSTEE VEKVEKYLA

>DM train553

MSAFEKPQIIAHIQKGFNYTVFDCKWVPCSAKFVTMGNFARGTGVIQLYEIQHGDLKLLREIEKAKPIK CGTFGATSLQQRYLATGDFGGNLHIWNLEAPEMPVYSVKGHKEIINAIDGIGGLGIGEGAPEIVTGSRD GTVKVWDPRQKDDPVANMEPVQGENKRDCWTVAFGNAYNQEERVVCAGYDNGDIKLFDLRNMA LRWETNIKNGVCSLEFDRKDISMNKLVATSLEGKFHVFDMRTQHPTKGFASVSEKAHKSTVWQVRHL PQNRELFLTAGGAGGLHLWKYEYPIQRSKKDSEGIEMGVAGSVSLLQNVTLSTQPISSLDWSPDKRGL CVCSSFDQTVRVLIVTKLNKI

>DM train554

GMNRLRTSFQQTTGQISGHGKRNVGVLKTAFAAVADEMASDQYGTGAIIEPFEQKFADVLGMDDA VFFPSGTMAQQVALRIWSDETDNRTVAYHPLCHLEIHEQDGLKELHPIETILVGAADRLMTLDEIKALP DIACLLLELPQREIGGVAPAFSELETISRYCRERGIRLHLDGARLFEMLPYYEKTAAEIAGLFDSIYISFYKG LGGIAGAILAGPAAFCQTARIWKRRYGGDLISLYPYIVSADYYYELRKDRMGQYYEQAKQLAEQFNAL PGVHTTPEVPVSNMFHLHFDGQAADISPKLEQVQEETGLGFVGYLVDKDGYCSTEISVGDAYGELDQ OTRDAGFARLROAFS

>DM train555

MLHILCQGTPFEIGYEHGSAAKAVIARSIDFAVDLIRGKTKKTDEELKQVLSQLGRVIEERWPKYYEEIRG IAKGAERDVSEIVMLNTRTEFAYGLKAARDGCTTAYCQLPNGALQGQNWDFFSATKENLIRLTIRQA

GLPTIKFITEAGIIGKVGFNSAGVAVNYNALHLQGLRPTGVPSHIALRIALESTSPSQAYDRIVEQGGMA ASAFIMVGNGHEAFGLEFSPTSIRKQVLDANGRMVHTNHCLLQHGKNEKELDPLPDSWNRHQRME FLLDGFDGTKQAFAQLWADEDNYPFSICRAYEEGKSRGATLFNIIYDHARREATVRLGRPTNPDEMFV MRFDEEDERSALNARL

#### >DM\_train558

MQTLHALLRDIPAPDAEAMARTQQHIDGLLKPPGSLGRLETLAVQLAGMPGLNGTPQVGEKAVLVM CADHGVWDEGVAVSPKIVTAIQAANMTRGTTGVCVLAAQAGAKVHVIDVGIDAEPIPGVVNMRVA RGCGNIAVGPAMSRLQAEALLLEVSRYTCDLAQRGVTLFGVGELGMANTTPAAAMVSVFTGSDAKE VVGIGANLPPSRIDNKVDVVRRAIAINQPNPRDGIDVLSKVGGFDLVGMTGVMLGAARCGLPVLLDG FLSYSAALAACQIAPAVRPYLIPSHFSAEKGARIALAHLSMEPYLHMAMRLGEGSGAALAMPIVEAAC AMFHNMGELAASNIVLPEGNANAT

#### >DM train559

EIKTTTTLHRVVEETTKPLGATLVVETDISRKDVNGLARGHLVDGIPLCTPSFYADIAMQVGQYSMQRL RAGHPGAGAIDGLVDVSDMVVDKALVPHGKGPQLLRTTLTMEWPPKAAATTRSAKVKFATYFADGK LDTEHASCTVRFTSDAQLKSLRRSVSEYKTHIRQLHDGHAKGQFMRYNRKTGYKLMSSMARFNPDY MLLDYLVLNEAENEAASGVDFSLGSSEGTFAAHPAHVDAITQVAGFAMNANDNVDIEKQVYVNHG WDSFQIYQPLDNSKSYQVYTKMGQAKENDLVHGDVVVLDGEQIVAFFRGLTLRSVPRGALRVVLQT TVKKADROLGFKTMPSPPPPTTTM

## >DM\_train560

MKLTLKNLSMAIMMSTIVMGSSAMAADSNEKIVIAHRGASGYLPEHTLPAKAMAYAQGADYLEQDL VMTKDDNLVVLHDHYLDRVTDVADRFPDRARKDGRYYAIDFTLDEIKSLKFTEGFDIENGKKVQTYPG RFPMGKSDFRVHTFEEEIEFVQGLNHSTGKNIGIYPEIKAPWFHHQEGKDIAAKTLEVLKKYGYTGKDD KVYLQCFDADELKRIKNELEPKMGMELNLVQLIAYTDWNETQQKQPDGSWVNYNYDWMFKPGAM KQVAEYADGIGPDYHMLIEETSQPGNIKLTGMVQDAQQNKLVVHPYTVRSDKLPEYTPDVNQLYDA LYNKAGVNGLFTDFPDKAVKFLN

>DM train561

HHHHHHPMSNTNIPTTENLYPEGAMVNKNKEGLNIDGKEVLAGSTNYYELTWDLDQYKGDKSSKE AIQNGFYYVDDYPEEALDVRPDLVKVADEKGNQVSGVSVQQYDSLEAAPKKVQDLLKKANITVKGA FQLFSADNPEEFYKQYVATGTSLVITDPMTVKSEFGKTGGKYENKAYQIDFGNGYATEVVVNNVPKIT PKKDVTVSLDPTSENLDGQTVQLYQTFNYRLIGGLIPQNHSEELEDYSFVDDYDQAGDQYTGNYKTF SSLNLTMKDGSVIKAGTDLTSQTTAETDATNGIVTVRFKEDFLQKISLDSPFQAETYLQMRRIAIGTFEN TYVNTVNKVAYASNTVRTTT

>DM train564

KELKFVTLVFRHGDRSPIDTFPTDPIKESSWPQGFGQLTQLGMEQHYELGEYIRKRYRKFLNESYKHEQ VYIRSTDVDRTLMSAMTNLAALFPPEGVSIWNPILLWQPIPVHTVPLSEDQLLYLPFRNCPRFQELESE TLKSEEFQKRLHPYKDFIATLGKLSGLHGQDLFGIWSKVYDPLYCESVHNFTLPSWATEDTMTKLRELS ELSLLSLYGIHKQKEKSRLQGGVLVNEILNHMKRATQIPSYKKLIMYSAHDTTVSGLQMALDVYNGLLP PYASCHLTELYFEKGEYFVEMYYRNETQHEPYPLMLPGCSPSCPLERFAELVGPVIPQDWSTECMTTN SHOGTEDSTD

>DM train565

METMKSKANCAQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWKARETYDNIS EILIATPLQQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFEDLERKYWKNRIYNSPI YGADISGSLFDENTKQWNLGHLGTIQDLLEKECGVVIEGVNTPYLYFGMWKTTFAWHTEDMDLYSIN YLHLGEPKTWYVVPPEHGQRLERLARELFPGSSRGCGAFLRHKVALISPTVLKENGIPFNRITQEAGEF MVTFPYGYHAGFNHGFNCAEAINFATPRWIDYGKMASQCSCGEARVTFSMDAFVRILQPERYDLWK RGQDRAVVDHMEPRVPA

>DM\_train566

MKRVFVFQDFKSQKFWSIDVRGTDVIVNYGKLGTDGQTQVKNFSSAGEAEKAAGKLIAEKTKKGYVE TLEEVAKEMKVEAKKYALSYDEAEEGVNLMDKILKDKKLPSLKQITIGCWGYEGEDCSDIADGIVENKE KFAHFEGLFWGDIDFEEQEISWIEQVDLSPVLDAMPLLNNLKIKGTNNLSIGKKPRPNLKSLEIISGGLP DSVVEDILGSDLPNLEKLVLYVGVEDYGFDGDMNVFRPLFSKDRFPNLKWLGIVDAEEQNVVVEMFL ESDILPQLETMDISAGVLTDEGARLLLDHVDKIKHLKFINMKYNYLSDEMKKELQKSLPMKIDVSDSQE YDDDYSYPMITE

#### >DM train567

GMYEEWKIVKREAPILGNDQLIENIWKMKREDSPYDIISLHKVNLIGGGNDAVLILPGTWSSGEQLVTI SWNGVHYTIPDYRKSIVLYLARNGFNVYTIDYRTHYVPPFLKDRQLSFTANWGWSTWISDIKEVVSFIK RDSGQERIYLAGESFGGIAALNYSSLYWKNDIKGLILLDGGPTKHGIRPKFYTPEVNSIEEMEAKGIYVIP SRGGPNNPIWSYALANPDMPSPDPKYKSISDFLMDSLYVTGSANPYDYPYSKKEDMFPILASFDPYW PYRLSLERDLKFDYEGILVPTIAFVSERFGIQIFDSKILPSNSEIILLKGYGHLDVYTGENSEKDVNSVVLKW LSOOR

## >DM\_train568

MGGSHHHHHHMASSVPIPGIKDISKLKFFYGFKYLWNPTVYNKIFDKLDLTKTYKHPEELKVLDLYPGV GIQSAIFYNKYCPRQYSLLEKRSSLYKFLNAKFEGSPLQILKRDPYDWSTYSNLIDEERIFVPEVQSSDHI NDKFLTVANVTGEGSEGLIMQWLSCIGNKNWLYRFGKVKMLLWMPSTTARKLLARPGMHSRSKCSV VREAFTDTKLIAISDANELKGFDSQCIEEWDPILFSAAEIWPTKGKPIALVEMDPIDFDFDVDNWDYVT RHLMILKRTPLNTVMDSLGHGGQQYFNSRITDKDLLKKCPIDLTNDEFIYLTKLFMEWPFKPDILMDFV DMYQTEHSG

## >DM train569

AGSDEVNRNECKTVVPLHTWVLISNFKLSYNILRRADGTFERDLGEYLDRRVPANARPLEGVSSFDHII DQSVGLEVRIYRAAAEGDAEEGAAAVTRPILEFLTDAPAAEPFPVIIFFHGGSFVHSSASSTIYDSLCRRF VKLSKGVVVSVNYRRAPEHRYPCAYDDGWTALKWVMSQPFMRSGGDAQARVFLSGDSSGGNIAH HVAVRAADEGVKVCGNILLNAMFGGTERTESERRLDGKYFVTLQDRDWYWKAYLPEDADRDHPAC NPFGPNGRRLGGLPFAKSLIIVSGLDLTCDRQLAYADALREDGHHVKVVQCENATVGFYLLPNTVHY HEVMEEISDFLNANLYY

## >DM\_train572

MLREFSFYDVPPAHVPPVSEPLEIACYSLSRDRELLLDDSKLSYYYPPPLFSDLNTGFPNRFHPPKSDPD PISIVKDVLMTKGIQMNSSFLTWRGLITKIMCAPLDPRNHWETYLVMDPTSGIIMMEERTRSETSYAN

QDRMCYWGYKFEAISTLPEIWDACSRDQIEQRDNQDVVPDEQYCSIVKINIGKSKLILAGEVDCIWDK KPCSAKESDVHSDDGTIEEDASNAENPNLHYVELKTSKKYPLENYGMRKKLLKYWAQSFLLGIGRIIIGF RDDNGILIEMKELFTHQIPKMLRPYFKPNDWTPNRLLVVLEHALEWIKQTVKQHPPSTEFTLSYTGGSK LVLROII

#### >DM\_train573

### >DM train574

MDRRRFLVGLLGLGLARGQGLRVEEVVGGLEVPWALAFLPDGGMLIAERPGRIRLFREGRLSTYAELS VYHRGESGLLGLALHPRFPQEPYVYAYRTVAEGGLRNQVVRLRHLGERGVLDRVVLDGIPARPHGLH SGGRIAFGPDGMLYVTTGEVYERELAQDLASLGGKILRLTPEGEPAPGNPFLGRRGARPEVYSLGHRN PQGLAWHPKTGELFSSEHGPSGEQGYGHDEVNLIVPGGNYGWPRVVGRGNDPRYRDPLYFWPQG FPPGNLAFFRGDLYVAGLRGQALLRLVLEGERGRWRVLRVETALSGFGRLREVQVGPDGALYVTTSN RDGRGQVRPGDDRVLRLL

#### >DM train575

MTYVQDGNKSELRKAKRQLVTVIDLNKCLGCQTCTVACKNIWTKRPGTEHMRWNNVTTYPGKGYP RDYERKGGGFLRGEPQPGVLPTLIDSGDDFQFNHKEVFYEGKGQTVHFHPTSKSTGKDPAWGYNWD EDQGGGKWPNPFFFYLARMCNHCTNPACLAACPTGAIYKREDNGIVLVDQERCKGHRHCVEACPY KAIYFNPVSQTSEKCILCYPRIEKGIANACNRQCPGRVRAFGYLDDTTSHVHKLVKKWKVALPLHAEY GTGPNIYYVPPMGARGFGEDGEITDKTRIPLDVLEGLFGPEVKRVLAVLHTERENMRAGRGSELMDLLI SKKWSDRFGGFTNDPLTQS

### >DM\_train576

MKIAIINMGNNVINFKTVPSSETIYLFKVISEMGLNVDIISLKNGVYTKSFDEVDVNDYDRLIVVNSSINF FGGKPNLAILSAQKFMAKYKSKIYYLFTDIRLPFSQSWPNVKNRPWAYLYTEEELLIKSPIKVISQGINLDI AKAAHKKVDNVIEFEYFPIEQYKIHMNDFQLSKPTKKTLDVIYGGSFRSGQRESKMVEFLFDTGLNIEFF GNAREKQFKNPKYPWTKAPVFTGKIPMNMVSEKNSQAIAALIIGDKNYNDNFITLRVWETMASDAV MLIDEEFDTKHRIINDARFYVNNRAELIDRVNELKHSDVLRKEMLSIQHDILNKTRAKKAEWQDAFKK AIDL

#### >DM\_train577

MGSDKIHHHHHHMIRAGIIGATGYTGLELVRLLKNHPEAKITYLSSRTYAGKKLEEIFPSTLENSILSEFDP EKVSKNCDVLFTALPAGASYDLVRELKGVKIIDLGADFRFDDPGVYREWYGKELSGYENIKRVYGLPEL HREEIKNAQVVGNPGCYPTSVILALAPALKHNLVDPETILVDAKSGVSGAGRKEKVDYLFSEVNESLRP YNVAKHRHVPEMEQELGKISGKKVNVVFTPHLVPMTRGILSTIYVKTDKSLEEIHEAYLEFYKNEPFVHV LPMGIYPSTKWCYGSNHVFIGMQMEERTNTLILMSAIDNLVKGASGQAVQNMNIMFGLDETKGLEF TPIYP

### >DM\_train578

MTSPSHASDRGGGDGDSVENQSPELRKDPVTNRWVIFSPARAKRPTDFKSKSPQNPNPKPSSCPFCI GREQECAPELFRVPDHDPNWKLRVIENLYPALSRNLETQSTQPETGTSRTIVGFGFHDVVIESPVHSIQ LSDIDPVGIGDILIAYKKRINQIAQHDSINYIQVFKNQGASAGASMSHSHSQMMALPVVPPTVSSRLD GTKDYFEETGKCCLCEAKSKHFVIDESSHFVSVAPFAATYPFEIWIIPKDHSSHFHHLDDVKAVDLGGLL KLMLQKIAKQLNDPPYNYMIHTSPLKVTESQLPYTHWFLQIVPQLSGVGGFEIGTGCYINPVFPEDVA KVMREVSLT

## >DM train580

DTSSLIVEDAPDHVRPYVIRHYSHARAVTVDTQLYRFYVTGPSSGYAFTLMGTNAPHSDALGVLPHIH QKHYENFYCNKGSFQLWAQSGNETQQTRVLSSGDYGSVPRNVTHTFQIQDPDTEMTGVIVPGGFE DLFYYLGTNATDTTHTPYIPSSSDSSSTTGPDSSTISTLQSFDVYAELSFTPRTDTVNGTAPANTVWHT GANALASTAGDPYFIANGWGPKYLNSQYGYQIVAPFVTATQAQDTNYTLSTISMSTTPSTVTVPTWS FPGACAFQVQEGRVVVQIGDYAATELGSGDVAFIPGGVEFKYYSEAYFSKVLFVSSGSDGLDQNLVN GGEEWSSVSFPADW

#### >DM train581

APLVHHHHHHALADNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQ ADHDKDGKGDACDHDDDNDGIPDDKDNCRLVPNPDQKDSDGDGRGDACKDDFDHDSVPDIDDI CPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNSDPGLAVGYDEFNAVDFSG TFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVKVVKSTTGPGEHL RNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVVMYEGKKIMADSGPIYDK TYAGGRLGLFVFSQEMVFFSDLKYECRDP

#### >DM train582

MTYFIDVPTMSDLVHDIGVAPFIGELAAALRDDFKRWQAFDKSARVASHSEVGVIELMPVADKSRYA FKYVNGHPANTARNLHTVMAFGVLADVDSGYPVLLSELTIATALRTAATSLMAAQALARPNARKMA LIGNGAQSEFQALAFHKHLGIEEIVAYDTDPLATAKLIANLKEYSGLTIRRASSVAEAVKGVDIITTVTAD KAYATIITPDMLEPGMHLNAVGGDCPGKTELHADVLRNARVFVEYEPQTRIEGEIQQLPADFPVVDL WRVLRGETEGRQSDSQVTVFDSVGFALEDYTVLRYVLQQAEKRGMGTKIDLVPWVEDDPKDLFSHT RGRAGKRRIRRVA

#### >DM\_train583

#### >DM train584

MAATAAEAVASGSGEPREEAGALGPAWDESQLRSYSFPTRPIPRLSQSDPRAEELIENEEPVVLTDTNL VYPALKWDLEYLQENIGNGDFSVYSASTHKFLYYDEKKMANFQNFKPRSNREEMKFHEFVEKLQDIQ QRGGEERLYLQQTLNDTVGRKIVMDFLGFNWNWINKQQGKRGWGQLTSNLLLIGMEGNVTPAHY DEQQNFFAQIKGYKRCILFPPDQFECLYPYPVHHPCDRQSQVDFDNPDYERFPNFQNVVGYETVVG

PGDVLYIPMYWWHHIESLLNGGITITVNFWYKGAPTPKRIEYPLKAHQKVAIMRNIEKMLGEALGNPQ EVGPLLNTMIKGRYN

>DM\_train586

MQNNNEFKIGNRSVGYNHEPLIICEIGINHEGSLKTAFEMVDAAYNAGAEVVKHQTHIVEDEMSDEA KQVIPGNADVSIYEIMERCALNEEDEIKLKEYVESKGMIFISTLFSRAAALRLQRMDIPAYKIGSGECNNY PLIKLVASFGKPIILSTGMNSIESIKKSVEIIREAGVPYALLHCTNIYPTPYEDVRLGGMNDLSEAFPDAIIG LSDHTLDNYACLGAVALGGSILERHFTDRMDRPGPDIVCSMNPDTFKELKQGAHALKLARGGKKDTII AGEKPTKDFAFASVVADKDIKKGELLSGDNLWVKRPGNGDFSVNEYETLFGKVAACNIRKGAQIKKTD IE

>DM\_train588

VNIKTNPFKAVSFVESAIKKALDNAGYLIAEIKYDGVRGNICVDNTANSYWLSRVSKTIPALEHLNGFD VRWKRLLNDDRCFYKDGFMLDGELMVKGVDFNTGSGLLRTKWTDTKNQEFHEELFVEPIRKKDKVPF KLHTGHLHIKLYAILPLHIVESGEDCDVMTLLMQEHVKNMLPLLQEYFPEIEWQAAESYEVYDMVELQ QLYEQKRAEGHEGLIVKDPMCIYKRGKKSGWWKMKPENEADGIIQGLVWGTKGLANEGKVIGFEVLL ESGRLVNATNISRALMDEFTETVKEATLSQWGFFSPYGIGDNDACTINPYDGWACQISYMEETPDGS I RHPSFVMFR

>DM train592

MTGREILEKLERREFTREVLKEALSINDRGFNEALFKLADEIRRKYVGDEVHIRAIIEFSNVCRKNCLYCGL RRDNKNLKRYRMTPEEIVERARLAVQFGAKTIVLQSGEDPYYMPDVISDIVKEIKKMGVAVTLSLGEWP REYYEKWKEAGADRYLLRHETANPVLHRKLRPDTSFENRLNCLLTLKELGYETGAGSMVGLPGQTIDD LVDDLLFLKEHDFDMVGIGPFIPHPDTPLANEKKGDFTLTLKMVALTRILLPDSNIPATTAMGTIVPGGR EITLRCGANVIMPNWTPSPYRQLYQLYPGKICVFEKDTACIPCVMKMIELLGRKPGRDWGGRKRVFET V

>DM train594

### >DM train595

#### >DM train596

MVKRMIALDGAQGEGGGQILRSALSLSMITGQPFTITSIRAGRAKPGLLRQHLTAVKAATEICGATVEG AELGSQRLLFRPGTVRGGDYRFAIGSAGSCTLVLQTVLPALWFADGPSRVEVSGGTDNPSAPPADFIR RVLEPLLAKIGIHQQTTLLRHGFYPAGGGVVATEVSPVASFNTLQLGERGNIVQMRGEVLLAGVPRHV AEREIATLAGSFSLHEQNIHNLPRDQGPGNTVSLEVESENITERFFVVGEKRVSAEVVAAQLVKEVKRY LASTAAVGEYLADQLVLPMALAGAGEFTVAHPSCHLLTNIAVVERFLPVRFSLIETDGVTRVSIEGSHH HHHH

## >DM\_train597

MRVVVIGAGVIGLSTALCIHERYHSVLQPLDVKVYADRFTPFTTTDVAAGLWQPYTSEPSNPQEANW NQQTFNYLLSHIGSPNAANMGLTPVSGYNLFREAVPDPYWKDMVLGFRKLTPRELDMFPDYRYGW FNTSLILEGRKYLQWLTERLTERGVKFFLRKVESFEEVARGGADVIINCTGVWAGVLQPDPLLQPGRG QIIKVDAPWLKNFIITHDLERGIYNSPYIIPGLQAVTLGGTFQVGNWNEINNIQDHNTIWEGCCRLEPT LKDAKIVGEYTGFRPVRPQVRLEREQLRFGSSNTEVIHNYGHGGYGLTIHWGCALEVAKLFGKVLEER NILLTMPPSHI

>DM train598

#### >DM\_train600

PQFMAAIYGGVEGGGTRSEVLLVSEDGKILAEADGLSTNHWLIGTDKCVERINEMVNRAKRKAGVDP LVPLRSLGLSLSGGDQEDAGRILIEELRDRFPYLSESYLITTDAAGSIATATPDGGVVLISGTGSNCRLINP DGSESGCGGWGHMMGDEGSAYWIAHQAVKIVFDSIDNLEAAPHDIGYVKQAMFHYFQVPDRLGIL THLYRDFDKCRFAGFCRKIAEGAQQGDPLSRYIFRKAGEMLGRHIVAVLPEIDPVLFQGKIGLPILCVGS VWKSWELLKEGFLLALTQGREIQAQNFFSSFTLMKLRHSSALGGASLGARHIGHLLPMDYSANAIAFY SYTFS

### >DM\_train601

MASLSRFRGCLAGALLGDCVGSFYEAHDTVDLTSVLRHVQSLEPDPGTPGSERTEALYYTDDTAMAR ALVQSLLAKEAFDEVDMAHRFAQEYKKDPDRGYGAGVVTVFKKLLNPKCRDVFEPARAQFNGKGSY GNGGAMRVAGISLAYSSVQDVQKFARLSAQLTHASSLGYNGAILQALAVHLALQGESSSEHFLKQLL GHMEDLEGDAQSVLDARELGMEERPYSSRLKKIGELLDQASVTREEVVSELGNGIAAFESVPTAIYCFL RCMEPDPEIPSAFNSLQRTLIYSISLGGDTDTIATMAGAIAGAYYGMDQVPESWQQSCEGYEETDILA QSLHRVFQKS

## >DM train602

>DM\_train604

CSALIKLLPGGHDLLVAHNTWNSYQNMLRIIKKYRLQFREGPQEEYPLVAGNNLVFSSYPGTIFSGDDF YILGSGLVTLETTIGNKNPALWKYVQPQGCVLEWIRNVVANRLALDGATWADVFKRFNSGTYNNQ WMIVDYKAFLPNGPSPGSRVLTILEQIPGMVVVADKTAELYKTTYWASYNIPYFETVFNASGLQALVA QYGDWFSYTKNPRAKIFQRDQSLVEDMDAMVRLMRYNDFLHDPLSLCEACNPKPNAENAISARSD LNPANGSYPFQALHQRAHGGIDVKVTSFTLAKYMSMLAASGPTWDQCPPFQWSKSPFHSMLHMG OPDLWMFSPIRVPWD

#### >DM train605

#### >DM\_train606

### >DM\_train607

#### >DM train608

MPSRTELLAEEYLRREGHDPQKFRYVHPDGTPYTDADGLARIARLAVPPAYQDVYVSPDAENELQAF GRDAAGRLQYRYHPDFVQAGALKKWQRLTRFAGALPTLKVATTADLRASGLPPRKVMALMTRLLHV ARFRVGSDIYARQHKTYGLSTLRQRHVVVDGNTVTFRFKGKHGVSQHKATSDRTLAANMQKLLDLP GPWLFQTVDAGGGERRRIHSTELNAYLREVIGPFTAKDFRTWGGTLLAAEYLAQQGTESSERQAKKVL VDCVKFVADDLGNTPAVTRGSYICPVIFDRYLDGKVLDDYEPRTERQEAELEGLTRSEGALKRMLESER TLRQRGRALK

#### >DM train610

VTDKTSLSYKDAGVDIDAGNALVGRIKGVVKKTRRPEVMGGLGGFGALCALPQKYREPVLVSGTDGV GTKLRLAMDLKRHDTIGIDLVAMCVNDLVVQGAEPLFFLDYYATGKLDVDTASAVISGIAEGCLQSGC SLVGGETAEMPGMYHGEDYDVAGFCVGVVEKSEIIDGSKVSDGDVLIALGSSGPHSNGYSLVRKILEV SGCDPQTTELDGKPLADHLLAPTRIYVKSVLELIEKVDVHAIAHLTGGGFWENIPRVLPDNTQAVIDES SWQWPEVFNWLQTAGNVEHHEMYRTFNCGVGMIIALPAPEVDKALALLNANGENAWKIGIIKASD SEORVVIE

#### >DM\_train611

MTFNPSKKLYISDVTLRDGSHAIRHQYTLDDVRAIARALDKAKVDSIEVAHGDGLQGSSFNYGFGRHT DLEYIEAVAGEISHAQIATLLLPGIGSVHDLKNAYQAGARVVRVATHCTEADVSKQHIEYARNLGMDT VGFLMMSHMIPAEKLAEQGKLMESYGATCIYMADSGGAMSMNDIRDRMRAFKAVLKPETQVGMH AHHNLSLGVANSIVAVEEGCDRVDASLAGMGAGAGNAPLEVFIAVAERLGWNHGTDLYTLMDAAD DIVRPLQDRPVRVDRETLGLGYAGVYSSFLRHAEIAAAKYNLKTLDILVELGHRRMVGGQEDMIVDVA LDLLAAHKENRA

#### >DM\_train613

MPARALLPRRMGHRTLASTPALWASIPCPRSELRLDLVLPSGQSFRWREQSPAHWSGVLADQVWTL TQTEEQLHCTVYRGDKSQASRPTPDELEAVRKYFQLDVTLAQLYHHWGSVDSHFQEVAQKFQGVRL LRQDPIECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVTYHGFPSLQALAGPEVEAHLRKLGLG

YRARYVSASARAILEEQGGLAWLQQLRESSYEEAHKALCILPGVGTKVADCICLMALDKPQAVPVDV HMWHIAQRDYSWHPTTSQAKGPSPQTNKELGNFFRSLWGPYAGWAQAVLFSADLRQSRHAQEPP AKRRKGSKGPEG

#### >DM train614

MSLRSIFWDDGLKLIDQTKLPEKLEVIECRNVEELADAIKKLAVRGAPALEAAGAYGIALAAREREFADV DELKEHLKKAADFLASTRPTAVNLFVGIERALNAALKGESVEEVKELALREAEKLAEEDVERNRKMGEY GAELLEDGDVVLTYCNAGRLATVDWGTALGVVRSAVEQGKEIRVIACETRPLNQGSRLTCWELMED GIDVTLITDSMVGIVMQKGMVDKVIVGADRIVRDAVFNKIGTYTVSVVAKHHNIPFYVAAPKATFDW ERTAKDVVIEERPREELIFCGKRQIAPLNVKVYNPAFDPTPLENVTALITEYGVIYPPYEVNVPKVLKFEG GS

### >DM train617

MIIDIHGHYTTAPKALEDWRNRQIAGIKDPSVMPKVSELKISDDELQASIIENQLKKMQERGSDLTVFS PRASFMAHHIGDFNVSSTWAAICNELCYRVSQLFPDNFIGAAMLPQSPGVDPKTCIPELEKCVKEYGF VAINLNPDPSGGHWTSPPLTDRIWYPIYEKMVELEIPAMIHVSTSCNTCFHTTGAHYLNADTTAFMQ CVAGDLFKDFPELKFVIPHGGGAVPYHWGRFRGLAQEMKKPLLEDHVLNNIFFDTCVYHQPGIDLLN TVIPVDNVLFASEMIGAVRGIDPRTGFYYDDTKRYIEASTILTPEEKQQIYEGNARRVYPRLDAALKAKG KI E

#### >DM train618

MFKYVIPLCALTLAAPSFAAQTTLMLSQKSDVNYLGWSTDESKVARQEVYRGTTSNPDLRERIAVLDA ETRTFKDADTNSGLNYWYWVDVVSENQAQVVSNAVTTAPNAGPLRAAKASSECKPGATFENRTVD CGGVTIGTSCPNDSDKQKPLIILKNATVKNLRISASGGADGIHCDSGNCTIENVIWEDICEDAATNNG KTMTIVGGIAHNAKDGYGGKPDKVLQHNSKNSTTVVKGNFTLTGEHGKLWRSCGDCSNNGGPRFL TVTSATVNGTIDSIAGVNRNYGDVATISGLKIKNYKEGKPPVCEEFKGVVKGQGSTEKYGEKWDTTNC KVSRSGVSKL

### >DM\_train619

### >DM train620

MSASHADQPTQTVSYPQLIDLLRRIFVVHGTSPEVADVLAENCASAQRDGSHSHGIFRIPGYLSSLAS GWVDGKAVPVVEDVGAAFVRVDACNGFAQPALAAARSLLIDKARSAGVAILAIRGSHHFAALWPDV EPFAEQGLVALSMVNSMTCVVPHGARQPLFGTNPIAFGAPRAGGEPIVFDLATSAIAHGDVQIAARE GRLLPAGMGVDRDGLPTQEPRAILDGGALLPFGGHKGSALSMMVELLAAGLTGGNFSFEFDWSKHP GAQTPWTGQLLIVIDPDKGAGQHFAQRSEELVRQLHGVGQERLPGDRRYLERARSMAHGIVIAQAD LERLOELAGH

### >DM\_train621

MSLKQTVYIASPESQQIHVWNLNHEGALTLTQVVDVPGQVQPMVVSPDKRYLYVGVRPEFRVLAYR IAPDDGALTFAAESALPGSLTHISTDHQGQFVFVGSYNAGNVSVTRLEDGLPVGVVDVVEGLDGCHS ANISPDNRTLWVPALKQDRICLFTVSDDGHLVAQDPAEVTTVEGAGPRHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNIECVQTLDMMPENFSDTRWAADIHITPDGRHLYACDRTASLITVFSVSEDGS VLSKEGFQPTETQPRGFNVDHSGKYLIAAGQKSHHISVYEIVGEQGLLHEKGRYAVGQGPMWVVVN AHEGGSHHHHHH

#### >DM train622

#### >DM\_train623

MSGSHHHHHHSSGIEGRGRLQTRQDVLYLYNWTYYTPTSLIKKFEQQYNVQVVYDDYASNEDMFA KLSIGASGYDLVVPSGDFVSIMKRKHLLEKIDLSKIPNVQFIKESVRARIAYDPKMEYSVPYYLGAAGIAV NKKAVPSYARTWSIFSRKDLAYRMSMMDDMREVMGAALASLGYNVNTKNEQELAQAAILVTDHW KPNLVKFDSDGYAKSFASGDFVVAHGFAEAFFAETPEAMHEHIDFFIPQDVASPVYVDSFCIPKGARN RDLAHAFINFFLEPAHYAEFLDTFGFPSTIHREAAAYQKKTPYYSEHDLERGTLKTDVGAAIEHYNAHW NAVRFR

#### >DM\_train624

## >DM train625

## >DM train626

MKERRYLPLSQARKSGFQMDWLSEPHPVKPTFIGTQVFEEYDLQKLVDYIDWKPFFDVWQLRGKYP NRGFPKIFNDKTVGGEARKVYDDAHNMLNTLISQKKLRARGVVGFWPAQSIQDDIHLYAEAAVPQA AEPIATFYGLRQQAENDSASTEPYYCLSDFIAPLHSGIRDYLGLFAVACFGVEELSKAYEDDGDDYSSIM VKALGDRLAEAFAEELHERVRRELWAYCGSEQLDVADLRRLRYKGIRPAPGYPSQPDHTEKLTMWRL ADIEQSTGIRLTESLAMAPASAVSGLYFSNLKSKYFAVGKISKDQVEDYALRKNISVAEVEKWLGPILGY DTD

#### >DM train627

GLMEPPGPSTPIVQRPRILLVIDDAHTDWSKYFHGKKVNGEIEIRVEQAEFSELNLAAYVTGGCMVDM QVVRNGTKVVSRSFKPDFILVRQHAYSMALGEDYRSLVIGLQYGGLPAVNSLYSVYNFCSKPWVFSQ LIKIFHSLGPEKFPLVEQTFFPNHKPMVTAPHFPVVVKLGHAHAGMGKIKVENQLDFQDITSVVAMAK TYATTEAFIDSKYDIRIQKIGSNYKAYMRTSISGNWKANTGSAMLEQVAMTERYRLWVDSCSEMFGG LDICAVKAVHSKDGRDYIIEVMDSSMPLIGEHVEEDRQLMADLVVSKMSQLPMPGGTAPSPLRPWA POIKSA

#### >DM train628

LTCGTNSGFVCKGTQTQYAGGFAPGVGYGGFGGGSCTATKTPVIFIHGNGDNAISFDMPPGNVSGY GTPARSVYAELKARGYNDCEIFGVTYLSSSEQGSAQYNYHSSTKYAIIKTFIDKVKAYTGKSQVDIVAHS MGVSMSLATLQYYNNWTSVRKFINLAGGIRGLYSCYYTGYANAAAPTCGSQNYYNSYTFGFFPEGW YYGVWVSNPWTGSGSTNSMRDMPAKRTAVSFYTLSAGFKDQVGCATASFWAGCDSAAKFASTTS NVKAQINVGAGSNATQADYDWADGMPYNAGGGDTTNGVGHFRTKTNTGAIIQRMLLTTCTGLDC AAEYTTGPKAAY

#### >DM\_train629

#### >DM train630

MPTLTARSVIPPYMLRRIIEHGSLPQRDCALHTLNHVQSLLGNKPLRAPGAKTSTGGEVIRDIYDAENS TQLPGKQVRNEGQASNHDVAVDEAYDYLGVTYDFFWQAFKRNSLDNQGLPLTGSVHYGKEYQNA FWNGQQMVFGDGDGEIFNRFTIAIDVVGHALAHGVTESEAGLIYFQQAGALNESLSDVFGSLVKQF HLKQTADKADWLIGEGLLAKGINGKGLRSMSAPGTAYDDPLLGKDPQPASMKDYIQTKEDNGGVHL

NSGIPNRAFYLAATALGGYAWEKAGYIWYDTLCDKALPQDADFATFARTTVKHAEQRFDSKVAQKV OOAWHOVGVA

### >DM\_train631

### >DM\_train632

GMHPNIATLLSANLGESRTRHLLSLVSVPDGLPSDAEGRATRAEIAQALNMVLFAGILDRVPTGRAYT DDVAATGGKVVFDHGALRTVKWRDNGALPEGEAAFTRILRPLGYRLNGNYPLDRISMTGRSYAHAD APEGIAQFFVSEFHPERFSDAFREAVGRVTGNSADPLTPRAQTLLWQLDRDGVLTVADGAELIGLLVP CFERQHGVPRLADYETLLRESAEMAWIATEGNAFNHATDRVDDVFGLSEQQKALGRPMKDKVEVSG SGRVKQTAFRADTVRRQFIGAQGETVERDVPGSFYEFITRDRFADAPAASPRVDLGFDAGNAQGIFK MTAAV

# >DM\_train633

## >DM train634

AEIYNKDGNKVDLYGKAVGLHYFSKGNGENSYGGNGDMTYARLGFKGETQINSDLTGYGQWEYNF QGNNSEGADAQTGNKTRLAFAGLKYADVGSFDYGRNYGVVYDALGYTDMLPEFGGDTAYSDDFFV GRVGGVATYRNSNFFGLVDGLNFAVQYLGKNERDTARRSNGDGVGGSISYEYEGFGIVGAYGAADR TNLQEAQPLGNGKKAEQWATGLKYDANNIYLAANYGETRNATPITNKFTNTSGFANKTQDVLLVAQ YQFDFGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFNKNMSTYVDYIINQIDSDNKLGVGSDD TVAVGIVYOF

#### >DM\_train635

MRGSPHHHHHHGSAKNVVLDHAGNLDDFVAMVLLASNTEKVRLIGALCTDADCFVENGFNVTGKI MCLMHNNMNLPLFPIGKSAATAVNPFPKEWRCLAKNMDDMPILNIPENVELWDKIKAENEKYEGQ QLLADLVMNSEEKVTICVTGPLSNVAWCIDKYGEKFTSKVEECVIMGGAVDVRGNVFLPSTDGTAEW NIYWDPASAKTVFGCPGLRRIMFSLDSTNTVPVRSPYVQRFGEQTNFLLSILVGTMWAMCTHCELLR DGDGYYAWDALTAAYVVDQKVANVDPVPIDVVVDKQPNEGATVRTDAENYPLTFVARNPEAEFFL DMLLRSARAC

#### >DM train636

MVSVARELTVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYMVYMFKYDSTHGRYKGSVEFRN GQLVVDNHEISVYQCKEPKQIPWRAVGSPYVVESTGVYLSIQAASDHISAGAQRVVISAPSPDAPMF VMGVNENDYNPGSMNIVSNASCTTNCLAPLAKVIHERFGIVEGLMTTVHSYTATQKTVDGPSRKAW RDGRGAHQNIIPASTGAAKAVTKVIPELKGKLTGMAFRVPTPDVSVVDLTCRLAQPAPYSAIKEAVKA AAKGPMAGILAYTEDEVVSTDFLGDTHSSIFDAKAGIALNDNFVKLISWYDNEYGYSHRVVDLLRYMF SRD

# >DM\_train637

## >DM\_train638

MKLATLKDSTRDGKLVVVSKDLTRCSEVGHIARTLQAALDDWAHAGPRLERVAEGIETGAQPTMRFH EHDAASPLPRAFQWADGSAYVNHVELVRKARNAEMPASFWTDPLIYQGGSDSFLGPRDPILMADD AWGIDMEGEAAVIVDDVPMGATLDEAKAAIRLVMLVNDVSLRGLIPGELAKGFGFYQSKPSSAFSPV AVTPEELGEAWDGGKLHLPLHVDLNGEPFGRANAGIDMTFDFPQLIVHAARTRPLSAGTIIGSGTVSN KLEGGPGRPVSEGGAGYSCIAELRMIETIEGGAPKTQFLKFGDVVRIEMKDRTGHSIFGAIEQKVGKYER G

#### >DM\_train640

### >DM\_train641

MVLVIEIIRKHLPRVLKVPATRILLLVLAVIIYGTAGFHFIEGESWTVSLYWTFVTIATVGYGDYSPSTPLG MYFTVTLIVLGIGTFAVAVERLLEFLINREQMKLMGLIDVAKSRHVVICGWSESTLECLRELRGSEVFVLA EDENVRKKVLRSGANFVHGDPTRVSDLEKANVRGARAVIVDLESDSETIHCILGIRKIDESVRIIAEAERY ENIEQLRMAGADQVISPFVISGRLMSRSIDDGYEAMFVQDVLAEESTRRMVEVPIPEGSKLEGVSVLD ADIHDVTGVIIIGVGRGDELIIDPPRDYSFRAGDIILGIGKPEEIERLKNYISA

## >DM\_train642

PQDVDFHIPLPGRQSPDHARAEAEQLAWPRSLGLIRSDAAAERHLRGGYADLASRFYPHATGADLDL GVDLMSWFFLFDDLFDGPRGENPEDTKQLTDQVAAALDGPLPDTAPPIAHGFADIWRRTCEGMTPA WCARSARHWRNYFDGYVDEAESRFWNAPCDSAAQYLAMRRHTIGVQPTVDLAERAGRFEVPHRV FDSAVMSAMLQIAVDVNLLLLDIASLEKEEARGEQNNMVMILRREHGWSKSRSVSHMQNEVRARLE QYLLLESCLPKVGEIYQLDTAEREALERYRTDAVRTVIRGSYDWHRSSGRYDAEFALAAGAQGYLEELG SSAH

### >DM\_train643

RENFPGVSWDSLPDELLLGIFSCLCLPELLKVSGVCKRWYRLASDESLWQTLDLTGKNLHPDVTGRLLS QGVIAFRCPRSFMDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNLSLEGLRLSDPIVNTL AKNSNLVRLNLSGCSGFSEFALQTLLSSCSRLDELNLSWCFDFTEKHVQVAVAHVSETITQLNLSGYRK NLQKSDLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLELGEIPTLKTL QVFGIVPDGTLQLLKEALPHLQINCSHFTTIARPTIGNKKNQEIWGIKCRLTLQKPSCL

#### >DM train644

MPVLNLNDPQAVERYEEFMRQSPYGQVTQDLGWAKVKNNWEPVDVYLEDDQGAIIAAMSMLLG DTPTDKKFAYASKGPVMDVTDVDLLDRLVDEAVKALDGRAYVLRFDPEVAYSDEFNTTLQDHGYVT RNRNVADAGMHATIQPRLNMVLDLTKFPDAKTTLDLYPSKTKSKIKRPFRDGVEVHSGNSATELDEFF KTYTTMAERHGITHRPIEYFQRMQAAFDADTMRIFVAEREGKLLSTGIALKYGRKIWYMYAGSMDGN TYYAPYAVQSEMIQWALDTNTDLYDLGGIESESTDDSLYVFKHVFVKDAPREYIGEIDKVLDPEVYAEL VKD

## >DM train645

MALSMTGGQQMGRGSMSRDPLPFFPPLYLGGPEITTENCEREPIHIPGSIQPHGALLTADGHSGEVL QMSLNAATFLGQEPTVLRGQTLAALLPEQWPALQAALPPGCPDALQYRATLDWPAAGHLSLTVHR VGELLILEFEPTEAWDSTGPHALRNAMFALESAPNLRALAEVATQTVRELTGFDRVMLYKFAPDATGE VIAEARREGLHAFLGHRFPASDIPAQARALYTRHLLRLTADTRAAAVPLDPVLNPQTNAPTPLGGAVL RATSPMHMQYLRNMGVGSSLSVSVVVGGQLWGLIACHHQTPYVLPPDLRTTLESLGRLLSLQVQVK EA

## >DM\_train646

#### >DM train648

## >DM\_train649

MAELKLGYKASAEQFAPRELVELAVAAEAHGMDSATVSDHFQPWRHQGGHAPFSLSWMTAVGER TNRLLLGTSVLTPTFRYNPAVIAQAFATMGCLYPNRVFLGVGTGEALNEIATGYEGAWPEFKERFARLR ESVGLMRQLWSGDRVDFDGDYYRLKGASIYDVPDGGVPVYIAAGGPAVAKYAGRAGDGFICTSGKG EELYTEKLMPAVREGAAAADRSVDGIDKMIEIKISYDPDPELAMNNTRFWAPLSLTAEQKHSIDDPIEM EKAADALPIEQIAKRWIVASDPDEAVEKVGQYVTWGLNHLVFHAPGHDQRRFLELFQSDLAPRLRRL G

### >DM train650

MGSDKIHHHHHHHMEMRFFVLGAGSWGTVFAQMLHENGEEVILWARRKEIVDLINVSHTSPYVEESKI TVRATNDLEEIKKEDILVIAIPVQYIREHLLRLPVKPSMVLNLSKGIEIKTGKRVSEIVEEILGCPYAVLSGPS HAEEVAKKLPTAVTLAGENSKELQKRISTEYFRVYTCEDVVGVEIAGALKNVIAIAAGILDGFGGWDNA KAALETRGIYEIARFGMFFGADQKTFMGLAGIGDLMVTCNSRYSRNRRFGELIARGFNPLKLLESSNQV VEGAFTVKAVMKIAKENKIDMPISEEVYRVVYEGKPPLQSMRDLMRRSLKDEFWAS

### >DM\_train651

GVLAPVVPGKALEFPQDFGAHNDFRIEWWYVTGWLETPTGKPLGFQITFFRTATEIDRDNPSHFAPD QLIIAHVALSDPAIGKLQHDQKIARAGFDLAYARTGNTDVKLDDWIFVRETDGRYRTRIEAEDFTLTFIL TPSQPLMLQGENGFSRKGPGAPQASYYYSEPHLQVSGIINRQGEDIPVTGTAWLDREWSSEYLDPNA AGWDWISANLDDGSALMAFQIRGKDDSKIWAYAALRDASGHTRLFTPDQVSFHPIRTWRSARTQA VYPVATRVLTGETEWQITPLMDDQELDSRASAGAVYWEGAVTFTRDGQPAGRGYMELTGYVRPLS

#### >DM train652

### >DM train653

#### >DM\_train654

#### >DM train655

MSEFLTPERTVYDSGVQFLRPKSLDEFIGQENVKKKLSLALEAAKMRGEVLDHVLLAGPPGLGKTTLAH IIASELQTNIHVTSGPVLVKQGDMAAILTSLERGDVLFIDEIHRLNKAVEELLYSAIEDFQIDIMIGKGPSA KSIRIDIQPFTLVGATTRSGLLSSPLRSRFGIILELDFYTVKELKEIIKRAASLMDVEIEDAAAEMIAKRSRGT PRIAIRLTKRVRDMLTVVKADRINTDIVLKTMEVLNIDDEGLDEFDRKILKTIIEIYRGGPVGLNALAASLG

## VEADTLSEVYEPYLLQAGFLARTPRGRIVTEKAYKHLKYEVPENRLF

#### >DM train656

MVYVSNKYLTMSEMKVNAQYILNYLSSNGWTKQAICGMLGNMQSESTINPGLWQNLDEGNTSLGF GLVQWTPASNYINWANSQGLPYKNMDSELKRIIWEVNNNAQWINLRDMTFKEYIKSTKTPRELAMIF LASYERPANPNQPERGDQAEYWYKNLSGGGGGGLQLAQFPMDIINISQGENGSFSHKGTLCIDFVG KTEKYPYYAPCDCTCVWRGDASAYLAWTSDKEVMCADGSVRYITWVNVHESPLPFDVGKKLKKGDL MGHTGIGGNVTGDHWHFNVIDGKEYQGWTKKPDSCLAGTELHIYDVFAVNNVEIINGNGYDWKTS DWODG

### >DM\_train657

## >DM train658

#### >DM\_train659

ALPDQIDVKVKNLTPEDTIYDRTRQVFYQSNLYKGRIEVYNPKTQSHFNVVIDGASSNGDGEQQMSG LSLLTHDNSKRLFAVMKNAKSFNFADQSSHGASSFHSFNLPLSENSKPVWSVNFEKVQDEFEKKAGK RPFGVVQSAQDRDGNSYVAFALGMPAIARVSADGKTVSTFAWESGNGGQRPGYSGITFDPHSNKLI

### >DM\_train660

MKVRIATYASHSALQILKGAKDEGFETIAFGSSKVKPLYTKYFPVADYFIEEKYPEEELLNLNAVVVPTGS FVAHLGIELVENMKVPYFGNKRVLRWESDRNLERKWLKKAGIRVPEVYEDPDDIEKPVIVKPHGAKGG KGYFLAKDPEDFWRKAEKFLGIKRKEDLKNIQIQEYVLGVPVYPHYFYSKVREELELMSIDRRYESNVDA IGRIPAKDQLEFDMDITYTVIGNIPIVLRESLLMDVIEAGERVVKAAEELMGGLWGPFCLEGVFTPDLEF VVFEISARIVAGTNIFVNGSPYTWLRYDRPVSTGRRIAMEIREAIENDMLEKVLT

### >DM\_train661

## >DM train664

MSEPSEKKQKVATSSLEQLKKAGTHVVADSGDFEAISKYEPQDSTTNPSLILAASKLEKYARFIDAAVEY GRKHGKTDHEKIENAMDKILVEFGTQILKVVPGRVSTEVDARLSFDKKATVKKALHIIKLYKDAGVPKER VLIKIASTWEGIQAARELEVKHGIHCNMTLLFSFTQAVACAEANVTLISPFVGRIMDFYKALSGKDYTAE TDPGVLSVKKIYSYYKRHGYATEVMAASFRNLDELKALAGIDNMTLPLNLLEQLYESTDPIENKLNSES AKEEGVEKVSFINDEPHFRYVLNEDQMATEKLSDGIRKFSADIEALYKLVEEKM

#### >DM\_train665

GMATYNYPEFGAGLWHFANYIDRYAVDGYGPALSTIDQINAAKEVGELSYVDLPYPFTPGVTLSEVKD ALKDAGLKAIGITPEIYLQKWSRGAFTNPDPAARAAAFELMHESAGIVRELGANYVKVWPGQDGWD YPFQVSHKNLWKLAVDGMRDLAGANPDVKFAIEYKPREPRVKMTWDSAARTLLGIEDIGLDNVGVLL

### >DM\_train666

### >DM\_train668

GLVPRGSHMTGRMLTLDGNPAANWLNNARTKWSASRADVVLSYQQNNGGWPKNLDYNSVGNG GGGNESGTIANGATITEMVFLAEVYKSGGNTKYRDAVRKAANFLVNSQYSTGALPQFYPLKGGYSDH ATFNDNGMAYALTVLDFAANKRAPFDTDVFSDNDRTRFKTAVTKGTDYILKAQWKQNGVLTVWCA QHGALDYQPKKARAYELESLSGSESVGVLAFLMTQPQTAEIEQAVRAGVAWFNSPRTYLEGYTYDSS LAATNPIVPRAGSKMWYRFYDLNTNRGFFSDRDGSKFYDITQMSLERRTGYSWGGNYGTSIINFAQK VGYL

## >DM\_train669

## >DM train670

QSSVTLFGIVDTNVAYVNKDAAGDSRYGLGTSGASTSRLGLRGTEDLGGGLKAGFWLEGEIFGDDGN ASGFNFKRRSTVSLSGNFGEVRLGRDLVPTSQKLTSYDLFSATGIGPFMGFRNWAAGQGADDNGIRA

#### >DM train671

### >DM train672

# >DM\_train673

MLKQPIQAQQLIELLKVHYGIDIHTAQFIQGGADTNAFAYQADSESKSYFIKLKYGYHDEINLSIIRLLH DSGIKEIIFPIHTLEAKLFQQLKHFKIIAYPFIHAPNGFTQNLTGKQWKQLGKVLRQIHETSVPISIQQQLR KEIYSPKWREIVRSFYNQIEFDNSDDKLTAAFKSFFNQNSAAIHRLVDTSEKLSKKIQPDLDKYVLCHSDI HAGNVLVGNEESIYIIDWDEPMLAPKERDLMFIGGGVGNVWNKPHEIQYFYEGYGEINVDKTILSYYR HERIVEDIAVYGQDLLSRNQNNQSRLESFKYFKEMFDPNNVVEIAFATEQ

## >DM train674

MHNHNNRLVITPGEPAGVGPDLAITLAQQDWPVELVVCADPALLLARASQLNLPLQLREYQADQP AIAQQAGSLTILPVKTAVNVVPGKLDVGNSHYVVETLAKACDGAISGEFAALVTGPVQKSIINDAGIPFI

#### >DM train675

#### >DM train676

GMELKSAEEKSLYYRNKIKEVIDEVGKVVVGQKYMINRLLIGICTGGHILLEGVPGLAKTLSVNTLAKTM DLDFHRIQFTPDLLPSDLIGTMIYNQHKGNFEVKKGPVFSNFILADEVNRSPAKVQSALLECMQEKQV TIGDTTYPLDNPFLVLATQNPVEQEGTYPLPEAQVDRFMMKIHLTYLDKESELEVMRRVSNMNFNYQ VQKIVSKNDVLEIRNEINKVTISESLEKYIIELVFATRFPAEYGLEAEASYILYGASTRAAINLNRVAKAMAF FNNRDYVLPEDIKEVAYDILNHRIILNYEAEAEGISTRQIIETILRKVNITKA

# >DM\_train677

MVPPTINTGKNITTERAVLTLNGLQIKLHKVVGESRDDIVAKMKDLAMDDHKFPRLPGPNPVSIERKD FEKLKQNKYVVSEKTDGIRFMMFFTRVFGFKVCTIIDRAMTVYLLPFKNIPRVLFQGSIFDGELCVDIVEK KFAFVLFDAVVVSGVTVSQMDLASRFFAMKRSLKEFKNVPEDPAILRYKEWIPLEHPTIIKDHLKKANAI YHTDGLIIMSVDEPVIYGRNFNLFKLKPGTHHTIDFIIMSEDGTIGIFDPNLRKNVPVGKLDGYYNKGSIV ECGFADGTWKYIQGRSDKNQANDRLTYEKTLLNIEENITIDELLDLFKWE

## >DM train678

MKTAYIAKQRQISFVKSHFSRQLEERLGLIEVQAPILSRVGDGTQDNLSGAEKAVQVKVKALPDAQFE VVHSLAKWKRQTLGQHDFSAGEGLYTHMKALRPDEDRLSPLHSVYVDQWDWERVMGDGERQFST

#### >DM train679

### >DM train680

# >DM\_train681

## >DM train682

MTTSDLVAGELAGDGLRDTRPGDTWLADRSWNRPGWTVAELEAAKAGRTISVVLPALDEEDTIGSVI DSISPLVDGLVDELIVLDSGSTDDTEIRAVAAGARVVSREQALPEVPIRPGKGEALWRSLAASRGDIVVF

#### >DM train683

### >DM\_train684

# >DM\_train685

# >DM\_train687

MDTWMVLLGLQILLLPLLAHCTAPASTLRFVAVGDWGGVPNAPFHTAREMANAKEIARTVQIMGA DFIMSLGDNFYFTGVHDANDKRFQETFEDVFSDRALRNIPWYVLAGNHDHLGNVSAQIAYSKISKR

#### >DM train689

### >DM train690

# >DM\_train691

MENEKILNPIIIQRADPMIYKHNDGYYYFTASVPEYDRIEVRKAKTIEGLRNAEPVDVWRRHESGEMSN LIWAPEIHFINGAWYIYFAAAPDKNIEDDTFNHRMFVIQNENENPFTGNWVEKGRIKTAWESFSLDAT IFEHNEKLYYVWAQQDINIKGHSNIYIAEMENPWTLKTKPVMLTKPELEWEIKGFWVNEGPAVLKKNG KIFITYSASATDVNYCIGMLTAEENSNLLDKNSWTKSQTPVFKTSMENHQYGPGHNSFTVSEDGKHD VIVYHARNYTEIKGDPLYDPNRHTRAQIINWREDGTPDFGVPEVDSLEIETPVKA

## >DM\_train693

MRGSHHHHHHTDPINKDIYQALQQLIPNEKIKVDEPLKRYTYTKTGGNADFYITPTKNEEVQAVVKYA YQNEIPVTYLGNGSNIIIREGGIRGIVISLLSLDHIEVSDDAIIAGSGAAIIDVSRVARDYALTGLEFACGIP GSIGGAVYMNAGAYGGEVKDCIDYALCVNEQGSLIKLTTKELELDYRNSIIQKEHLVVLEAAFTLAPGK MTEIQAKMDDLTERRESKQPLEYPSCGSVFQRPPGHFAGKLIQDSNLQGHRIGGVEVSTKHAGFMV NVDNGTATDYENLIHYVQKTVKEKFGIELNREVRIIGEHPKESLQPSLIS

#### >DM train694

#### >DM train695

MGSSSSGRENLYFQGHMFFTDWEGPWILTDFALELCMAVFNNARFFSNLSEYDDYLAYEVRREGYEA GYTLKLLTPFLAAAGVKNRDVERIAELSAKFVPDAEKAMATLQERWTPVVISTSYTQYLRRTASMIGVR GELHGTEVDFDSIAVPEGLREELLSIIDVIASLSGEELFRKLDELFSRSEVRKIVESVKAVGAGEKAKIMRGY CESKGIDFPVVVGDSISDYKMFEAARGLGGVAIAFNGNEYALKHADVVIISPTAMSEAKVIELFMERKE RAFEVLSAVSIPETEIYIMENSDFGEVLEKSKRMRVRLRGLAGELGGS

# >DM\_train696

MVVVGLDVGYGDTKVIGVDGKRIIFPSRWAVTETESWGIGGKIPVLSTDGGQTKFIYGKYASGNNIRV PQGDGRLASKEAFPLIAAALWESGIHNDGSPVDLVIGSGTPLGTFDLEVKAAKEALENKVLTVTGPEGE VRQFNITRLIMRPQGVGAALYLLNQGIIEQQPGYGVVIDVGSRTTDVLTINLMDMEPVVELSFSLQIGV GDAISALSRKIAKETGFVVPFDLAQEALSHPVMFRQKQVGGPEVSGPILEDLANRIIENIRLNLRGEVDR VTSLIPVGGGSNLIGDRFEEIAPGTLVKIKPEDLQFANALGYRDAAERSM

## >DM train698

MRVLIVKTSSMGDVLHTLPALTDAQQAIPGIKFDWVVEEGFAQIPSWHAAVERVIPVAIRRWRKAWF SAPIKAERKAFREALQAKNYDAVIDAQGLVKSAALVTRLAHGVKHGMDWQTAREPLASLFYNRKHHI

>DM train699

GMRKPKITVIGGGTGSPVILKSLREKDVEIAAIVTVADDGGSSGELRKNMQQLTPPGDLRNVLVAMSD MPKFYEKVFQYRFSEDAGAFAGHPLGNLIIAGLSEMQGSTYNAMQLLSKFFHTTGKIYPSSDHPLTLH AVFQDGTEVAGESHIVDHRGIIDNVYVTNALNDDTPLASRRVVQTILESDMIVLGPGSLFTSILPNIVIK EIGRALLETKAEIAYVCNIMTQRGETEHFTDSDHVEVLHRHLGRPFIDTVLVNIEKVPQEYMNSNRFDE YLVQVEHDFVGLCKQVSRVISSNFLRLENGGAFHDGDLIVDELMRIIQVKK

>DM train700

MILGIDIGGANTKITELHENGEFKVHHLYFPMWKNNDKLAEVLKTYSNDVSHVALVTTAELADSYETK KEGVDNILNAAESAFGSNISVFDSNGNFISLESAKTNNMKVSASNWCGTAKWVSKNIEENCILVDMG STTTDIIPIVEGKVVAEKTDLERLMNHELLYVGTLRTPISHLGNTISFKGVDTNVSSEYFAITADISVVLEK VTTEEYTCDTPDGKGTDKRSSLVRISKVLCSDLDQISEIDAENIAKNYYELWKELILENVENVAEKYGSKK VVITGLGENILKDALADFEVISVAERYGKDVSLATPSFAVAELLKNEL

>DM\_train701

SQLVECVPNFSEGKNQEVIDAISRAVAQTPGCVLLDVDSGPSTNRTVYTFVGRPEDVVEGALNAARA AYQLIDMSRHHGEHPRMGALDVCPFIPVRGVTMDECVRCAQAFGQRLAEELGVPVYLYGEAARTAG RQSLPALRAGEYEALPEKLKQAEWAPDFGPSAFVPSWGATVAGARKFLLAFNINLLSTREQAHRIALD LREQGRGKDQPGRLKKVQAIGWYLDEKNLAQVSTNLLDFEVTGLHTVFEETCREAQELSLPVVGSQL VGLVPLKALLDAAAFYCEKENLFLLQDEHRIRLVVNRLGLDSLAPFKPKERIIEYLV

>DM train702

LQTLPPVQLAQKYFQIFSEEKDPLWQDPCEDKRHKDIWSKEKTCDRFPKLLIIGPQKTGTTALYLFLGM HPDLSSNYPSSETFEEIQFFNGHNYHKGIDWYMEFFPIPSNTTSDFYFEKSANYFDSEVAPRRAAALLP

KAKVLTILINPADRAYSWYQHQRAHDDPVALKYTFHEVITAGSDASSKLRALQNRCLVPGWYATHIER WLSAYHANQILVLDGKLLRTEPAKVMDMVQKFLGVTNTIDYHKTLAFDPKKGFWCQLLEGGKTKCL GKSKGRKYPEMDLDSRAFLKDYYRDHNIELSKLLYKMGQTLPTWLREDLQNTR

#### >DM train703

GMKEIRIILMGTGNVGLNVLRIIDASNRRRSAFSIKVVGVSDSRSYASGRNLDISSIISNKEKTGRISDRAF SGPEDLMGEAADLLVDCTPASRDGVREYSLYRMAFESGMNVVTANKSGLANKWHDIMDSANQNS KYIRYEATVAGGVPLFSVLDYSILPSKVKRFRGIVSSTINYVIRNMANGRSLRDVVDDAIKKGIAESNPQ DDLNGLDAARKSVILVNHIFGTEYTLNDVEYSGVDERSYNANDRLVTEVYVDDRRPVAVSRIISLNKD DFLMSIGMDGLGYOIETDSNGTVNVSDIYDGPYETAGAVVNDILLLSKVOK

#### >DM train705

MAMSQQDLPTLFYSGKSNSAVPIISESELQTITAEPWLEISKKGLQLEGLNFDRQGQLFLLDVFEGNIFK INPETKEIKRPFVSHKANPAAIKIHKDGRLFVCYLGDFKSTGGIFAATENGDNLQDIIEDLSTAYCIDDM VFDSKGGFYFTDFRGYSTNPLGGVYYVSPDFRTVTPIIQNISVANGIALSTDEKVLWVTETTANRLHRIA LEDDGVTIQPFGATIPYYFTGHEGPDSCCIDSDDNLYVAMYGQGRVLVFNKRGYPIGQILIPGRDEGH MLRSTHPQFIPGTNQLIICSNDIEMGGGSMLYTVNGFAKGHQSFQFQ

## >DM\_train706

AAAADTTVTQFLQSFKENAENGALRKFYEVIMDNGGAVLDDINSLTEVTILAPSNEAWNSSNINNVL RDRNKMRQILNMHIIKDRLNVDKIRQKNANLIAQVPTVNNNTFLYFNVRGEGSDTVITVEGGGVNAT VIQADVAQTNGYVHIIDHVLGVPYTTVLGKLESDPMMSDTYKMGKFSHFNDQLNNTQRRFTYFVPR DKGWQKTELDYPSAHKKLFMADFSYHSKSILERHLAISDKEYTMKDLVKFSQESGSVILPTFRDSLSIRV EEEAGRYVIIWNYKKINVYRPDVECTNGIIHVIDYPLLEEKDVVVAGGSAAAAA

## >DM train709

MKTRITELLKIDYPIFQGGMAWVADGDLAGAVSKAGGLGIIGGGNAPKEVVKANIDKIKSLTDKPFGV NIMLLSPFVEDIVDLVIEEGVKVVTTGAGNPSKYMERFHEAGIIVIPVVPSVALAKRMEKIGADAVIAEG MEAGGHIGKLTTMTLVRQVATAISIPVIAAGGIADGEGAAAGFMLGAEAVQVGTRFVVAKESNAHPN YKEKILKARDIDTTISAQHFGHAVRAIKNQLTRDFELAEKDAFKQEDPDLEIFEQMGAGALAKAVVHG DVDGGSVMAGQIAGLVSKEETAEEILKDLYYGAAKKIQEEASRWTGVVRND

#### >DM train710

EIFSQELTQREANVKKVHENLEELQKKLDHTSFAHKEDRDRLEAQIAQKEQEQKAKLAEYDQKVQNEF DARERAEREREAARGDAAAEKQRLASLLKDLEDDASGYNRLRPSKPMLSEEDTNILRQLFLSSAVSGS GKFSFQDLKQVLAKYADTIPEGPLKKLFVMVENDTKGRMSYITLVAVANDLAALVADFRKIDTNSNGT LSRKEFREHFVRLGFDKKSVQDALFRYADEDESDDVGFSEYVHLGLCLLVLRILYAFADFDKSGQLSKEE VQKVLEDAHIPESARKKFEHQFSVVDVDDSKSLSYQEFVMLVLLMFHDD

## >DM\_train711

FNKIKDSVKQKIDSMGDKGTYGVSASHPLAVEEGMKVLKNGGSAVDAAIVVSYVLGVVELHASGIGG GGGMLIISKDKETFIDYRETTPYFTGNQKPHIGVPGFVAGMEYIHDNYGSLPMGELLQPAINYAEKGFK VDDSLTMRLDLAKPRIYSDKLSIFYPNGEPIETGETLIQTDLARTLKKIQKEGAKGFYEGGVARAISKTAKI SLEDIKGYKVEVRKPVKGNYMGYDVYTAPPPFSGVTLLQMLKLAEKKEVYKDVDHTATYMSKMEEISR IAYQDRKKNLGDPNYVNMDPNKMVSDKYISTMKNENGDALSEAEHES

# >DM\_train712

## >DM train713

MADDFAYLNARVRVRRGTLLKESFFQEALDLSFADFLRLLSETVYGGELAGQGLPDVDRAVLRTQAKL VGDLPRLVTGEAREAVRLLLLRNDLHNLQALLRAKATGRPFEEVLLLPGTLREEVWRQAYEAQDPAG

MAQVLAVPGHPLARALRAVLRETQDLARVEALLAKRFFEDVAKAAKGLDQPALRDYLALEVDAENLR TAFKLQGSGLAPDAFFLKGGRFVDRVRFARLMEGDYAVLDELSGTPFSGLSGVRDLKALERGLRCVLL KEAKKGVQDPLGVGLVLAYVKEREWEAVRLRLLARRAYFGLPRAQVEEEVVCP

#### >DM train714

QLTPTFYDNSCPNVSNIVRDTIVNELRSDPRIAASILRLHFHDCFVNGCDASILLDNTTSFRTEKDAFGN ANSARGFPVIDRMKAAVESACPRTVSCADLLTIAAQQSVTLAGGPSWRVPLGRRDSLQAFLDLANA NLPAPFFTLPQLKDSFRNVGLNRSSDLVALSGGHTFGKNQCRFIMDRLYNFSNTGLPDPTLNTTYLQT LRGLCPLNGNLSALVDFDLRTPTIFDNKYYVNLEEQKGLIQSDQELFSSPNATDTIPLVRSFANSTQTFF NAFVEAMDRMGNITPLTGTQGQIRLNCRVVNSNSLLHDMVEVVDFVSSM

## >DM\_train715

MGSSHHHHHHHSSGRENLYFQGHMEGVRWAFSCGTWLPSRAEWLLAVRSIQPEEKERIGQFVFAR DAKAAMAGRLMIRKLVAEKLNIPWNHIRLQRTAKGKPVLAKDSSNPYPNFNFNISHQGDYAVLAAEP ELQVGIDIMKTSFPGRGSIPEFFHIMKRKFTNKEWETIRSFKDEWTQLDMFYRNWALKESFIKAIGVGLG FELQRLEFDLSPLNLDIGQVYKETRLFLDGEEEKEWAFEESKIDEHHFVAVALRKPDGSRHQDVPSQD DSKPTQRQFTILNFNDLMSSAVPMTPEDPSFWDCFCFTEEIPIRNGTKSLESG

# >DM\_train716

MPLCTLRQMLGEARKHKYGVGAFNVNNMEQIQGIMKAVVQLKSPVILQCSRGALKYSDMIYLKKLC EAALEKHPDIPICIHLDHGDTLESVKMAIDLGFSSVMIDASHHPFDENVRITKEVVAYAHARSVSVEAEL GTLGGIEEDVQNTVQLTEPQDAKKFVELTGVDALAVAIGTSHGAYKFKSESDIRLAIDRVKTISDLTGIPL VMHGSSSVPKDVKDMINKYGGKMPDAVGVPIESIVHAIGEGVCKINVDSDSRMAMTGAIRKVFVEH PEKFDPRDYLGPGRDAITEMLIPKIKAFGSAGHAGDYKVVSLEEAKAWYK

# >DM\_train717

MTNSNDIDETAATIDTARALLKSFGFEAQRHNVRSAVTLLALAGLKPGDHWADSTTPRLGVQKIMD WSGAYWAKPYATGSREDFRKKTLRQWVDNGFAVLNPDNLNIATNSQLNEYCLSDEAAQAIRSYGT

DAFESALVDFLSKASDTVRARAEALRAAMISVDLADGDEFLLSPAGQNPLLKKMVEEFMPRFAPGAK VLYIGDTRGKHTRFEKRIFEETLGLTFDPHGRMPDLVLHDKVRKWLFLMEAVKSKGPFDEERHRTLREL FATPVAGLVFVNCFENREAMRQWLPELAWETEAWVADDPDHLIHLNGSRFLGPYER

>DM train719

MLRGGVNDCKIKWEFLIGNSIDSSPILAKNGTIYLGSSNKNLYAINTDGSVKWFFKSGEIIECRPSIGKDG TIYFGSDKVYAINPDGTEKWRFDTKKAIVSDFTIFEDILYVTSMDGHLYAINTDGTEKWRFKTKKAIYATP IVSEDGTIYVGSNDNYLYAINPDGTEKWRFKTNDAITSAASIGKDGTIYFGSDKVYAINPDGTEKWNFY AGYWTVTRPAISEDGTIYVTSLDGHLYAINPDGTEKWRFKTGKRIESSPVIGNTDTIYFGSYDGHLYAIN PDGTEKWNFETGSWIIATPVIDENGTIYFGTRNGKFYALFN

>DM train720

TENKRKSMEKLSVDGVISALAFDQRGALKRMMAQHQTKEPTVEQIEELKSLVSEELTPFASSILLDPEY GLPASRVRSEEAGLLLAYEKTGYDATTTSRLPDCLDVWSAKRIKEAGAEAVKFLLYYDIDGDQDVNEQ KKAYIERIGSECRAEDIPFYLEILTYDEKIADNASPEFAKVKAHKVNEAMKVFSKERFGVDVLKVEVPVN MKFVEGFADGEVLFTKEEAAQAFRDQEASTDLPYIYLSAGVSAKLFQDTLVFAAESGAKFNGVLCGRA TWAGSVKVYIEEGPQAAREWLRTEGFKNIDELNKVLDKTASPWTEKM

>DM\_train721

SEDPVFTFGLIADVQYADIEDGENYLRTRRRYYRGSADLLRDAVLQWRRERVQCVVQLGDIIDGHNR RRDASDRALDTVMAELDACSVDVHHVWGNHEFYNFSRPSLLSSRLNSAQRTGTDTGSDLIGDDIYA YEFSPAPNFRFVLLDAYDLSVIGREEESEKHTHSWRILTQHNHNLQDLNLPPVSVGLEQRFVKFNGGF SEQQLQWLDAVLTLSDHKQERVLIFSHLPVHPCAADPICLAWNHEAVLSVLRSHQSVLCFIAGHDHD GGRCTDSSGAQHITLEGVIETPPHSHAFATAYLYEDRMVMKGRGRVEDLTITYS

>DM train722

MAVYTDITEDELRNFLTQYDVGSLTSYKGIAEGVENSNFLLHTTKDPLILTLYEKRVEKNDLPFFLGLMQ HLAAKGLSCPLPLPRKDGELLGELSGRPAALISFLEGMWLRKPEAKHCREVGKALAAMHLASEGFEIKR

PNALSVDGWKVLWDKSEERADEVEKGLREEIRPEIDYLAAHWPKDLPAGVIHADLFQDNVFFLGDEL SGLIDFYFACNDLLAYDVSICLNAWCFEKDGAYNVTKGKALLEGYQSVRPLSEAELEALPLLSRGSALRF FLTRLYDWLTTPAGALVVKKDPLEYLRKLRFHRTIANVAEYGLAGE

#### >DM train723

### >DM train724

## >DM\_train725

MLVPRGSMLDFEKPLFEIRNKIESLKESQDKNDVDLQEEIDMLEASLERETKKIYTNLKPWDRVQIARL QERPTTLDYIPYIFDSFMELHGDRNFRDDPAMIGGIGFLNGRAVTVIGQQRGKDTKDNIYRNFGMAH PEGYRKALRLMKQAEKFNRPIFTFIDTKGAYPGKAAEERGQSESIATNLIEMASLKVPVIAIVIGEGGSGG ALGIGIANKVLMLENSTYSVISPEGAAALLWKDSNLAKIAAETMKITAHDIKQLGIIDDVISEPLGGAHK DIEQQALAIKSAFVAQLDSLESLSRDEIANDRFEKFRNIGSYIE

## >DM train728

MLVFIDDGSTNIKLQWQESDGTIKQHISPNSFKREWAVSFGDKKVFNYTLNGEQYSFDPISPDAVVTT NIAWQYSDVNVVAVHHALLTSGLPVSEVDIVCTLPLTEYYDRNNQPNTENIERKKANFRKKITLNGGD

TFTIKDVKVMPESIPAGYEVLQELDELDSLLIIDLGGTTLDISQVMGKLSGISKIYGDSSLGVSLVTSAVKD ALSLARTKGSSYLADDIIIHRKDNNYLKQRINDENKISIVTEAMNEALRKLEQRVLNTLNEFSGYTHVM VIGGGAELICDAVKKHTQIRDERFFKTNNSQYDLVNGMYLIGN

>DM train729

MSANDFKPETWTSSANEALRVSIVGENAVQFSPLFTYPIYGDSEKIYGYKDLIIHLAFDSVTFKPYVNVK YSAKLGDDNIVDVEKKLLSFLPKDDVIVRDEAKWVDCFAEERKTHNLSDVFEKVSEYSLNGEEFVVYKS SLVDDFARRMHRRVQIFSLLFIEAANYIDETDPSWQIYWLLNKKTKELIGFVTTYKYWHYLGAKSFDEDI DKKFRAKISQFLIFPPYQNKGHGSCLYEAIIQSWLEDKSITEITVEDPNEAFDDLRDRNDIQRLRKLGYD AVFQKHSDLSDEFLESSRKSLKLEERQFNRLVEMLLLLNNS

>DM\_train730

MQLFDLSLEELKKYKPKKTARPDFSDFWKKSLEELRQVEAEPTLESYDYPVKGVKVYRLTYQSFGHSKIE GFYAVPDQTGPHPALVRFHGYNASYDGGIHDIVNWALHGYATFGMLVRGQGGSEDTSVTPGGHAL GWMTKGILSKDTYYYRGVYLDAVRALEVIQSFPEVDEHRIGVIGGSQGGALAIAAAALSDIPKVVVAD YPYLSNFERAVDVALEQPYLEINSYFRRNSDPKVEEKAFETLSYFDLINLAGWVKQPTLMAIGLIDKITPP STVFAAYNHLETDKDLKVYRYFGHEFIPAFQTEKLSFLQKHLLLST

>DM\_train731

MKKPNGTNGASSSLEPPPSTFQPLCHPLVEEVSKEVDGYFLQHWNFPNEKARKKFVAAGFSRVTCLY FPKALDDRIHFACRLLTVLFLIDDLLEYMSFEEGSAYNEKLIPISRGDVLPDRSIPVEYIIYDLWESMRAHD REMADEILEPVFLFMRAQTDRTRARPMGLGGYLEYRERDVGKELLAALMRFSMGLKLSPSELQRVREI DANCSKHLSVVNDIYSYEKELYTSKTAHSEGGILCTSVQILAQEADVTAEAAKRVLFVMCREWELRHQ LLVARLSAEGLETPGLAAYVEGLEYQMSGNELWSQTTLRYSVVVD

>DM train733

MTDSPGGVAPASPVEDASDASLGQPEEGAPCQVVLQGAELNGILQAFAPLRTSLLDSLLVMGDRGIL IHNTIFGEQVFLPLEHSQFSRYRWRGPTAAFLSLVDQKRSLLSVFRANQYPDLRRVELAITGQAPFRTL

VQRIWTTTSDGEAVELASETLMKRELTSFVVLVPQGTPDVQLRLTRPQLTKVLNATGADSATPTTFEL GVNGKFSVFTTSTCVTFAAREEGVSSSTSTQVQILSNALTKAGQAAANAKTVYGENTHRTFSVVVDD CSMRAVLRRLQVGGGTLKFFLTTPVPSLCVTATGPNAVSAVFLLKPQK

#### >DM train734

LEADKCKEREEKIILVSSANEIDVRPCPLNPNEHKGTITWYKDDSKTPVSTEQASRIHQHKEKLWFVPAK VEDSGHYYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKLPVAGDGGLVCPYMEFFKNENNEL PKLQWYKDCKPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTR PVIVSPANETMEVDLGSQIQLICNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLI TVLNISEIESRFYKHPFTCFAKNTHGIDAAYIQLIYPVTNFQK

### >DM train735

RHRLFQLNREVDDLEQWIAEREVVAGSHELGQDYEHVTMLQERFREFARDTGNIGQERVDTVNHLA DELINSGHSDAATIAEWKDGLNEAWADLLELIDTRTQILAASYELHKFYHDAKEIFGRIQDKHKKLPEEL GRDQNTVETLQRMHTTFEHDIQALGTQVRQLQEDAARLQAAYAGDKADDIQKRENEVLEAWKSLL DACESRRVRLVDTGDKFRFFSMVRDLMLWMEDVIRQIEAQEKPRDVSSVELLMNNHQGIKAEIDAR NDSFTTCIELGKSLLARKHYASEEIKEKLLQLTEKRKEMIDKWEDRWEWLRL

# >DM\_train736

ADTYAATRYPVILVHGLAGTDKFANVVDYWYGIQSDLQSHGAKVYVANLSGFQSDDGPNGRGEQL LAYVKQVLAATGATKVNLIGHSQGGLTSRYVAAVAPQLVASVTTIGTPHRGSEFADFVQDVLKTDPT GLSSTVIAAFVNVFGTLVSSSHNTDQDALAALRTLTTAQTATYNRNFPSAGLGAPGSCQTGAATETV GGSQHLLYSWGGTAIQPTSTVLGVTGATDTSTGTLDVANVTDPSTLALLATGAVMINRASGQNDGL VSRCSSLFGQVISTSYHWNHLDEINQLLGVRGANAEDPVAVIRTHVNRLKLQGV

## >DM train737

SNAMTQSPIFLTPVFKEKIWGGTALRDRFGYSIPSESTGECWAISAHPKGPSTVANGPYKGKTLIELWEE HREVFGGVEGDRFPLLTKLLDVKEDTSIKVHPDDYYAGENEEGELGKTECWYIIDCKENAEIIYGHTARS

KTELVTMINSGDWEGLLRRIKIKPGDFYYVPSGTLHALCKGALVLETQQNSDATYRVYDYDRLDSNGS PRELHFAKAVNAATVPHVDGYIDESTESRKGITIKTFVQGEYFSVYKWDINGEAEMAQDESFLICSVIEG SGLLKYEDKTCPLKKGDHFILPAQMPDFTIKGTCTLIVSHI

>DM train738

AKAPEQTVTEPVGSYARAERPQDFEGFVWRLDNDGKEALPRNFRTSADALRAPEKKFHLDAAYVPSR EGMDALHISGSSAFTPAQLKNVAAKLREKTAGPIYDVDLRQESHGYLDGIPVSWYGERDWANLGKS QHEALADERHRLHAALHKTVYIAPLGKHKLPEGGEVRRVQKVQTEQEVAEAAGMRYFRIAATDHVW PTPENIDRFLAFYRTLPQDAWLHFHCEAGVGRTTAFMVMTDMLKNPSVSLKDILYRQHEIGGFYYGEF PIKTKDKDSWKTKYYREKIVMIEQFYRYVQENRADGYQTPWSVWLKSHPAKA

>DM\_train739

GSPGISGGGGILDSMAEIVADKTVEVVKNAIETADGALDLYNKYLDQVIPWQTFDETIKELSRFKQEY SQAASVLVGDIKTLLMDSQDKYFEATQTVYEWCGVATQLLAAYILLFDEYNEKKASAQKDILIKVLDD GITKLNEAQKSLLVSSQSFNNASGKLLALDSQLTNDFSEKSSYFQSQVDKIRKEAYAGAAAGVVVGPF GLIISYSIAAGVVEGKLIPELKNKLKSVQNFFTTLSNTVKQANKDIDAAKLKLTTEIAAIGEIKTETETTRFY VDYDDLMLSLLKEAAKKMINTCNEYQKRHGKKTLFEVPEV

>DM\_train742

MSLEVKVGLAPMAGYTDSAFRTLAFEWGADFAFSEMVSAKGFLMNSQKTEELLPQPHERNVAVQIF GSEPNELSEAARILSEKYKWIDLNAGCPVRKVVKEGAGGALLKDLRHFRYIVRELRKSVSGKFSVKTRLG WEKNEVEEIYRILVEEGVDEVFIHTRTVVQSFTGRAEWKALSVLEKRIPTFVSGDIFTPEDAKRALEESGC DGLLVARGAIGRPWIFKQIKDFLRSGKYSEPSREEILRTFERHLELLIKTKGERKAVVEMRKFLAGYTKDLK GARRFREKVMKIEEVOILKEMFYNFIKEVEGGSHHHHHH

>DM train743

MPKPYVAINMAELKNEPKTFEMFASVGPKVCMVTARHPGFVGFQNHIQIGILPFGNRYGGAKMDMT KESSTVRVLQYTFWKDWKDHEEMHRQNWSYLFRLCYSCASQMIWGPWEPIYEIIYANMPINTEMTD

FTAVVGKKFAEGKPLDIPVISQPYGKRVVAFAEHSVIPGKEKQFEDAIVRTLEMLKKAPGFLGAMVLKEI GVSGIGSMQFGAKGFHQVLENPGSLEPDPNNVMYSVPEAKNTPQQYIVHVEWANTDALMFGMGR VLLYPELRQVHDEVLDTLVYGPYIRILNPMMEGTFWREYLNEQAWRHPQFGG

#### >DM train744

EGGDFVVGMVTDSGDIDDKSFNQQVWEGISRFAQENNAKCKYVTASTDAEYVPSLSAFADENMGL VVACGSFLVEAVIETSARFPKQKFLVIDAVVQDRDNVVSAVFGQNEGSFLVGVAAALKAKEAGKSAV GFIVGMELGMMPLFEAGFEAGVKAVDPDIQVVVEVANTFSDPQKGQALAAKLYDSGVNVIFQVAGG TGNGVIKEARDRRLNGQDVWVIGVDRDQYMDGVYDGSKSVVLTSMVKRADVAAERISKMAYDGSF PGGQSIMFGLEDKAVGIPEENPNLSSAVMEKIRSFEEKIVSKEIVVPVRSARMMN

## >DM\_train745

MEQLRGLYPPLAAYDSGWLDTGDGHRIYWELSGNPNGKPAVFIHGGPGGGISPHHRQLFDPERYKV LLFDQRGCGRSRPHASLDNNTTWHLVADIERLREMAGVEQWLVFGGSWGSTLALAYAQTHPERVS EMVLRGIFTLRKQRLHWYYQDGASRFFPEKWERVLSILSDDERKDVIAAYRQRLTSADPQVQLEAAKL WSVWEGETVTLLPSRESASFGEDDFALAFARIENHYFTHLGFLESDDQLLRNVPLIRHIPAVIVHGRYD MACQVQNAWDLAKAWPEAELHIVEGAGHSYDEPGILHQLMIATDRFAGK

# >DM\_train746

MAELACFCYPHLENDSYKFIPFNNLAIKAMLTAKVDKKDMDKFYDSIIYGIAPPPQFKKRYNTNDNSR GMNFETIMFTKVAMLICEALNSLKVTQANVSNVLSRVVSIRHLENLVIRKENPQDILFHSKDLLLKSTLI AIGQSKEIETTITAEGGEIVFQNAAFTMWKLTYLEHQLMPILDQNFIEYKVTLNEDKPISDVHVKELVAE LRWQYNKFAVITHGKGHYRIVKYSSVANHADRVYATFKSNVKTGVNNDFNLLDQRIIWQNWYAFTS SMKQGNTLDVCKRLLFQKMKPEKNPFKGLSTDRKMDEVSQVGV

# >DM\_train747

MSNQYGDKNLKIFSLNSNPELAKEIADIVGVQLGKCSVTRFSDGEVQINIEESIRGCDCYIIQSTSDPVN EHIMELLIMVDALKRASAKTINIVIPYYGYARQDRKARSREPITAKLFANLLETAGATRVIALDLHAPQIQ

GFFDIPIDHLMGVPILGEYFEGKNLEDIVIVSPDHGGVTRARKLADRLKAPIAIIDKRRPRPNVAEVMNIV GNIEGKTAILIDDIIDTAGTITLAANALVENGAKEVYACCTHPVLSGPAVERINNSTIKELVVTNSIKLPEE KKIERFKQLSVGPLLAEAIIRVHEQQSVSYLFS

>DM train749

GMPPVWTLPRLYQHFQGAIDLELWTIPYYLTVLYSIKDPTTVPYRLIQAAVYQEMLHAQLVSNIANAY GYSPTLSAPEYVGTAVPHIDFDLDTPNPTSIFTPYSAELGPLDLTRVNTMCLIEYPEWRTQREPDLADD VTDYGSIGEFYDALRVGMEQLRGHVRGNQKQMDEFGPFYQNSPPLTVTESGDAGFLQALTLVDIIVD QGEGQTQPVETIPTEFQNTADGFQDAWPHFQRFDFIRRMPNWPGVYTGVTDPPAGSPGAEAQARL IADFAGFLDILNGMFSGGGAPPAFGVQMAKLGGDILSCWKLGAVPRYS

>DM\_train751

MIKLGIVMDPIANINIKKDSSFAMLLEAQRRGYELHYMEMGDLYLINGEARAHTRTLNVKQNYEEWFS FVGEQDLPLADLDVILMRKDPPFDTEFIYATYILERAEEKGTLIVNKPQSLRDCNEKLFTAWFSDLTPETL VTRNKAQLKAFWEKHSDIILKPLDGMGGASIFRVKEGDPNLGVIAETLTEHGTRYCMAQNYLPAIKDG DKRVLVVDGEPVPYCLARIPQGGETRGNLAAGGRGEPRPLTESDWKIARQIGPTLKEKGLIFVGLDIIG DRLTEINVTSPTCIREIEAEFPVSITGMLMDAIEARLQQQ

>DM\_train752

MPFTIDSARGIFPNTLAADVVPATIARFSQLNAEDQLALIWFAYLEMGKTLTIAAPGAASMQLAENAL KEIQAMGPLQQTQAMCDLANRADTPLCRTYASWSPNIKLGFWYRLGELMEQGFVAPIPAGYQLSA NANAVLATIQGLESGQQITVLRNAVVDMGFTAGKDGKRIAEPVVPPQDTASRTKVSIEGVTNATVLN YMDNLNANDFDTLIELFTSDGALQPPFQRPIVGKENVLRFFREECQNLKLIPERGVTEPAEDGFTQIKV TGKVQTPWFGGNVGMNIAWRFLLNPEGKIFFVAIDLLASPKELLNFA

>DM\_train753

GSACAEFSFHVPSLEELAGVMQKGLKDNFADVQVSVVDCPDLTKEPFTFPVKGICGKTRIAEVGGVPY LLPLVNQKKVYDLNKIAKEIKLPGAFILGAGAGPFQTLGFNSEFMPVIQTESEHKPPVNGSYFAHVNPA

DGGCLLEKYSEKCHDFQCALLANLFASEGQPGKVIEVKAKRRTGPLNFVTCMRETLEKHYGNKPIGM GGTFIIQKGKVKSHIMPAEFSSCPLNSDEEVNKWLHFYEMKAPLVCLPVFVSRDPGFDLRLEHTHFFSR HGEGGHYHYDTTPDIVEYLGYFLPAEFLYRIDQPKETHSIGRD

>DM train754

MDSGRLAVIALGGNAIAGPGMDVSVESQTAAVKRASSIIADVLADGWRSVITHGNGPQVGYLSEAFE ALPPERPRQPLYIATAMTQAWIGLLLKHSLEEELRRRGLNVLVPVVISRVLVDVSDPSFNNPSKPVGPIY GREEAEELSRRYGWVFKRDPRGGFRRVVPSPRPVSIVDRDLIAEASAESPAVVALGGGGVPVVERPGG VLEPVEAVVDKDLASSLLATQLNADLLVILTDVPGVAVNYGREGERWLRRAAASELKKYLREGHFPPG SMGPKVEAAISFVERTGKPAVIGSLEEARQVLSLQAGTVVMLG

>DM train755

NAVLTWNNEILPNWETMWCSRKVRDLWWQGIPPSVRGKVWSLAIGNELNITHELFDICLARAKERW RSLSTGGSEVENEDAGFSAADREASLELIKLDISRTFPNLCIFQQGGPYHDMLHSILGAYTCYRPDVGY VQGMSFIAAVLILNLDTADAFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFFEENLPKLFAHFKKN NLTPDIYLIDWIFTLYSKSLPLDLACRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFIHMAQFLTRLPE DLPAEELFASIATIQMQSRNKKWAQVLTALQKDSREMEKG

>DM\_train757

GRVYYINSHGTLSRHENTLRFENAEVKKDIPVEDVEEIFVFAELSLNTKLLNFLASKGIPLHFFNYYGYYT GTFYPRESSVSGHLLIKQVEHYLDAQKRLYLAKSFVIGSILNLEYVYKISADTYLNKVKETNSIPELMSVEA EFRKLCYKKLEEVTGWELEKRTKRPPQNPLNALISFGNSLTYAKVLGEIYKTQLNPTVSYLHEPSTKRFSL SLDVAEVFKPIFVDNLIIRLIQENKIDKTHFSTELNMTFLNEIGRKVFLKAFNELLETTIFYPKLNRKVSHRT LIKLELYKLIKHLLEEEVYLPLNYGGLK

>DM\_train758

MTRTRSGSLAAGGLNWASLPLKLFAGGNAKFWHPADIDFTRDRADWEKLSDDERDYATRLCTQFIA GEEAVTEDIQPFMSAMRAEGRLADEMYLTQFAFEEAKHTQVFRMWLDAVGISEDLHRYLDDLPAYR

QIFYAELPECLNALSADPSPAAQVRASVTYNHIVEGMLALTGYYAWHKICVERAILPGMQELVRRIGD DERRHMAWGTFTCRRHVAADDANWTVFETRMNELIPLALRLIEEGFALYGDQPPFDLSKDDFLQYST DKGMRRFGTISNARGRPVAEIDVDYSPAQLEDTFADEDRRTLAAASA

>DM train759

MARKKNTSDQSRSQAANTPIAGTYEGEYSVIELEADSYTTDGWLISINGVPSSHIVLGQPQALEFEYM RWIATGARAFIDAHQDASKLRITHLGGGACTMARYFADVYPQSRNTVVELDAELARLSREWFDIPRA PRVKIRVDDARMVAESFTPASRDVIIRDVFAGAITPQNFTTVEFFEHCHRGLAPGGLYVANCGDHSDL RGAKSELAGMMEVFEHVAVIADPPMLKGRRYGNIILMGSDTEFFSSNSTEASAITRELLGGGVPAQYK DESWVRKFASGAQARHDGVSTLQMPSDTPQHPAETPEHSNTQP

>DM\_train760

GGNSKSRNDRTETVDKEVIKAPEFDADSAYQYIQVQADFGPRVPNTQAHKECGEYLAGQLEKFGAK VYNQYADLIAYDGTILKSRNIIGAYKPESKKRILLCAHWDSRPYADNDPDPKNHHTPILGVNDGASGV GVLLEIARQIQKEQPALGIDIVFFDSEDYGIPEFYDGKYKQDTWCLGSQYWARTPHVQNYNARYGILL DMVGGKDATFYYEGYSARTARSEMKKIWKKAHELGYGKYFVKEDGGETVDDHIYVNKLARIPCVDIIN YDAGNPQSSFGSFWHTVNDTMENIDRNTLKAVGQTVMDVIYNEK

>DM\_train761

MLDNVLRIATRQSPLALWQAHYVKDKLMASHPGLVVELVPMVTRGDVILDTPLAKVGGKGLFVKELE VALLENRADIAVHSMKDVPVEFPQGLGLVTICEREDPRDAFVSNNYDSLDALPAGSIVGTSSLRRQCQ LAERRPDLIIRSLRGNVGTRLSKLDNGEYDAIILAVAGLKRLGLESRIRAALPPEISLPAVGQGAVGIECRL DDSRTRELLAALNHHETALRVTAERAMNTRLEGGCQVPIGSYAELIDGEIWLRALVGAPDGSQIIRGER RGAPQDAEQMGISLAEELLNNGAREILAEVYNGDAPA

>DM train762

MERIDSHVSPRYAQIPTFMRLPHDPQPRGYDVVVIGAPYDGGTSYRPGARFGPQAIRSESGLIHGVGI DRGPGTFDLINCVDAGDINLTPFDMNIAIDTAQSHLSGLLKANAAFLMIGGDHSLTVAALRAVAEQH GPLAVVHLDAHSDTNPAFYGGRYHHGTPFRHGIDEKLIDPAAMVQIGIRGHNPKPDSLDYARGHGV RVVTADEFGELGVGGTADLIREKVGQRPVYVSVDIDVVDPAFAPGTGTPAPGGLLSREVLALLRCVGD LKPVGFDVMEVSPLYDHGGITSILATEIGAELLYQYARAHRTQL

#### >DM train764

MNQKLKVAIIGSGNIGTDLMIKVLRNAKYLEMGAMVGIDAASDGLARAQRMGVTTTYAGVEGLIKLP EFADIDFVFDATSASAHVQNEALLRQAKPGIRLIDLTPAAIGPYCVPVVNLEEHLGKLNVNMVTCGGQ ATIPMVAAVSRVAKVHYAEIVASISSKSAGPGTRANIDEFTETTSKAIEVIGGAAKGKAIIIMNPAEPPLI MRDTVYVLSAAADQAAVAASVAEMVQAVQAYVPGYRLKQQVQFDVIPESAPLNIPGLGRFSGLKTS VFLEVEGAAHYLPAYAGNLDIMTSAALATAERMAQSMLNA

### >DM\_train766

MSDLMQKENIVVMLTKKGFLKRLSQNEYKLQGTGGKGLSSFDLNDGDEIVIALCVNTHDYLFMISNE GKLYLINAYEIKDSSRASKGQNISELINLGDQEEILTIKNSKDLTDDAYLLLTTASGKIARFESTDFKAVKS RGVIVIKLNDKDFVTSAEIVFKDEKVICLSKKGSAFIFNSRDVRLTNRGTQGVCGMKLKEGDLFVKVLSV KENPYLLIVSENGYGKRLNMSKISELKRGATGYTSYKKSDKKAGSVVDAIAVSEDDEILLVSKRSKALRTV AGKVSEQGKDARGIQVLFLDNDSLVSVSKFIK

# >DM\_train767

HMYRNVPIWAQKWKPTIKALQSINVKDLKIDPSFLNIIPDDDLTKSVQDWVYATIYSIAPELRSFIELEM KFGVIIDAKGPDRVNPPVSSQCVFTELDAHLTPNIDASLFKELSKYIRGISEVTENTGKFSIIESQTRDSVY RVGLSTQRPRFLRMSTDIKTGRVGQFIEKRHVAQLLLYSPKDSYDVKISLNLELPVPDNDPPEKYKSQS PISERTKDRVSYIHNDSCTRIDITKVENHNQNSKSRQSETTHEVELEINTPALLNAFDNITNDSKEYASLI RTFLNNGTIIRRKLSSLSYEIFEGSKKVM

## >DM train768

MDTTVPTFSLAELQQGLHQDEFRRCLRDKGLFYLTDCGLTDTELKSAKDIVIDFFEHGSEAEKRAVTSP VPTMRRGFTGLESESTAQITNTGSYSDYSMCYSMGTADNLFPSGDFERIWTQYFDRQYTASRAVARE VLRATGTEPDGGVEAFLDCEPLLRFRYFPQVPEHRSAEEQPLRMAPHYDLSMVTLIQQTPCANGFVSL QAEVGGAFTDLPYRPDAVLVFCGAIATLVTGGQVKAPRHHVAAPRRDQIAGSSQTSSVFFLRPNADF TFSVPLARECGFDVSLDGETATFQDWIGGNYVNIRRTSKA

#### >DM train769

GQDYSGFTLTPSAQSPRLLELTFTEQTTKQFLEQVAEWPVQALEYKSFLRFRVAKILDDLCANQLQPLL LKTLLNRAEGALLINAVGVDDVKQADEMVKLATAVAHLIGRSNFDAMSGQYYARFVVKNVDNSDSY LRQPHRVMELHNDGTYVEEITDYVLMMKIDEQNMQGGNSLLLHLDDWEHLDNYFRHPLARRPMRF AAPPSKNVSKDVFHPVFDVDQQGRPVMRYIDQFVQPKDFEEGVWLSELSDAIETSKGILSVPVPVGK FLLINNLFWLHGRDRFTPHPDLRRELMRQRGYFAYASNHYQTHQ

#### >DM train770

AAASMDAVTAEKFSPASFLDKKETGVLHFVKYHGLGNDFILVDNRDSSEPKITQEQAAKLCDRNFGV GADGVIFAMPGVNGTDYAMRIFNSDGSEPEMCGNGVRCFARFIAELENLQGKHSFTIHTGAGLIVPEI QDDGQVKVDMGTPILKAQDVPTKLSGNKGEAVVEAELVVDGVSWNVTCVSMGNPHCITFGKKGG PNLKVDDLNLPEIGPKFEHHEMFPARTNTEFVEVLSRSHLKMRVWERGAGATLACGTGACALVVAAV LEGRADRKCTVDLPGGPLEIEWKQEDNHIYMTGPAEAVFYGSALL

## >DM\_train771

MANPLYHKHIISINDLSRDELELVLRTAASLKKTPQPELLKHKVIASCFFEASTRTRLSFETSIHRLGASVV GFSDSSNTSLGKKGETLADTMSVISTYVDAIVMRHPQEGASRLAAQFSGNVPIVNAGDGANQHPTQ TLLDLFTIQETQGRLDNINIAMVGDLKYGRTVHSLTQALAKFNGNHFFFIAPDALAMPAYILQMLEEKE IEYSLHESLEEVVPELDILYMTRVQKERLDPSEYANVKAQFILRSSDLTGARDNLKVLHPLPRIDEITTDV DKTPYAYYFQQAGNGIFARQALLALVLNAELAL

# >DM\_train772

EANAPGPVPGERQLAHSKMVPIPAGVFTMGTDDPQIKQDGEAPARRVTIDAFYMDAYEVSNTEFEK FVNSTGYLTEAEKFGDSFVFEGMLSEQVKTNIQQAVAAAPWWLPVKGANWRHPEGPDSTILHRPDH

PVLHVSWNDAVAYCTWAGKRLPTEAEWEYSCRGGLHNRLFPWGNKLQPKGQHYANIWQGEFPVT NTGEDGFQGTAPVDAFPPNGYGLYNIVGNAWEWTSDWWTVHHSVEETLNPKGPPSGKDRVKKGG SYMCHRSYCYRYRCAARSQNTPDSSASNLGFRCAADRLPTMDRGSHHHHHH

#### >DM train773

GHMTSRPSSDQTWQPIDGRVALIAPASAIATDVLEATLRQLEVHGVDYHLGRHVEARYRYLAGTVEQ RLEDLHNAFDMPDITAVWCLRGGYGCGQLLPGLDWGRLQAASPRPLIGFSDISVLLSAFHRHGLPAI HGPVATGLGLSPLSAPREQQERLASLASVSRLLAGIDHELPVQHLGGHKQRVEGALIGGNLTALACM AGTLGGLHAPAGSILVLEDVGEPYYRLERSLWQLLESIDARQLGAICLGSFTDCPRKEVAHSLERIFGEY AAAIEVPLYHHLPSGHGAQNRAWPYGKTAVLEGNRLRWGS

#### >DM train774

GPNANPIPEHFFAPYIDMSLSVHKPLVEYAKLTGTKYFTLAFILYSSVYNGPAWAGSIPLEKFVDEVRELR EIGGEVIIAFGGAVGPYLCQQASTPEQLAEWYIKVIDTYNATYLDFDIEAGIDADKLADALLIVQRERPW VKFSFTLPSDPGIGLAGGYGIIETMAKKGVRVDRVNPMTMDYYWTPSNAENAIKVAENVFRQLKQIYP EKSDEEIWKMIGLTPMIGVNDDKSVFTLEDAQQLVDWAIQHKIGSLAFWSVDRDHPGPTGEVSPLHR GTNDPDWAFSHVFVKFMEAFGYTFSAQTSEASVPT

## >DM\_train776

MRLKDLGERALLARLAPLGYPPEAPLPPGDDAGGVWAEGRAWLLKTDGFLYREVALKGMGPFEVGF RGVAATASDLLAKMGRPLGFTLGLFLPEDLEEGFVLELVRGAAEAAKRLGAFLLGGDTNRGVEVALTV SGYALAEAPLPRKALPGDLLYLAGDRWGRTGAAIRAHYEGRSLEGFPKIREAAFYPLPRLELLALSGLLR GSLDSSDGLAETLWQLADLGVGVEVEALPLYPDVLAFAGSEEAALELVLYGGEEFEAVLVVPQEGAAA VEARAKAKGLPLFRAGRVVAGEGVYLRGAPLPRKGYAHF

## >DM train777

MSRKKMGLLVMAYGTPYKEEDIERYYTHIRRGRKPEPEMLQDLKDRYEAIGGISPLAQITEQQAHNLE QHLNEIQDEITFKAYIGLKHIEPFIEDAVAEMHKDGITEAVSIVLAPHFSTFSVQSYNKRAKEEAEKLGGL

TITSVESWYDEPKFVTYWVDRVKETYASMPEDERENAMLIVSAHSLPEKIKEFGDPYPDQLHESAKLIA EGAGVSEYAVGWQSEGNTPDPWLGPDVQDLTRDLFEQKGYQAFVYVPVGFVADHLEVLYDNDYEC KVVTDDIGASYYRPEMPNAKPEFIDALATVVLKKLGR

#### >DM train778

GMQKQHNVVAGVDMGATHIRFCLRTAEGETLHCEKKRTAEVIAPGLVSGIGEMIDEQLRRFNARCH GLVMGFPALVSKDKRTIISTPNLPLTAADLYDLADKLENTLNCPVEFSRDVNLQLSWDVVENRLTQQL VLAAYLGTGMGFAVWMNGAPWTGAHGVAGELGHIPLGDMTQHCACGNPGCLETNCSGMALRR WYEQQPRNYPLRDLFVHAENAPFVQSLLENAARAIATSINLFDPDAVILGGGVMDMPAFPRETLVA MTQKYLRRPLPHQVVRFIAASSSDFNGAQGAAILAHQRFLPQFCAKAP

### >DM train779

MLDANKLQQAVDQAYTQFHSLNGGQNADYIPFLANVPGQLAAVAIVTCDGNVYSAGDSDYRFALE SISKVCTLALALEDVGPQAVQDKIGADPTGLPFNSVIALELHGGKPLSPLVNAGAIATTSLINAENVEQ RWQRILHIQQQLAGEQVALSDEVNQSEQTTNFHNRAIAWLLYSAGYLYCDAMEACDVYTRQCSTLL NTIELATLGATLAAGGVNPLTHKRVLQADNVPYILAEMMMEGLYGRSGDWAYRVGLPGKSGVGGGI LAVVPGVMGIAAFSPPLDEDGNSVRGQKMVASVAKQLGYNVFKG

# >DM\_train780

MAVEVLKEKWNSKVVEVTLGTGDKTVTLGGDSTLPFLTFEGEMPNPPRFALEVFDTPPTDWPDILVEP FKDVINDPVAWAKKCVEYGADIVALRLVSAHPDGQNRSGAELAEVCKAVADAIDVPLMIIGCGVEEK DAEIFPVIGEALSGRNCLLSSATKDNYKPIVATCMVHGHSVVASAPLDINLSKQLNIMIMEMNLAPNRI IMDPLIGALGYGIEYSYSIIERMRLGALTGDKILAMPVVCFIGQEAWKAKEAKDPEVAEWGDYALRAIH WETVTTVALIQAGGHLFVMRHPKSLAEVKEHLKRILK

## >DM\_train781

GPLGSYGDAIPEVKAILEAKNEEELVTFTSRWSAEERKELRTQFQDTTGLEFIAFLKKCIKNGPYEDVMA LGWDCNISARVNVIKKAMKNVNDFRAIHDVVLIATPDERLKLAQAYKEKTGNDLLQDFVDQIPLTSA

ASYLCHLAIRENRTPRGSVASDAEVLKHNLIDADEPDHEAVVRLIITSTADEYKEINHRFEVLTGKSVQE AIETRYADKENARGLCIAHYYNLAPARAVAYAFHSAVETQNDDMAYEQAARITGLFHDLHKFAWVH YACWGVMRDDILSRFQSKEANKVNFRDACLMFWKLAK

### >DM train782

MRTHDDTWDIKTSVGTTAVMVAAARAAETDRPDALIRDPYAKLLVTNTGAGALWEAMLDPSMVAK VEAIDAEAAAMVEHMRSYQAVRTNFFDTYFNNAVIDGIRQFVILASGLDSRAYRLDWPTGTTVYEID QPKVLAYKSTTLAEHGVTPTADRREVPIDLRQDWPPALRSAGFDPSARTAWLAEGLLMYLPATAQDG LFTEIGGLSAVGSRIAVETSPLHGDEWREQMQLRFRRVSDALGFEQAVDVQELIYHDENRAVVADWL NRHGWRATAOSAPDEMRRVGRWGDGVPMADDKDAFAEFVTAHRL

## >DM\_train783

MARYDLVDRLNTTFRQMEQELAIFAAHLEQHKLLVARVFSLPEVKKEDEHNPLNRIEVKQHLGNDAQ SLALRHFRHLFIQQQSENRSSKAAVRLPGVLCYQVDNLSQAALVSHIQHINKLKTTFEHIVTVESELPT AARFEWVHRHLPGLITLNAYRTLTVLHDPATLRFGWANKHIIKNLHRDEVLAQLEKSLKSPRSVAPWT REEWQRKLEREYQDIAALPQNAKLKIKRPVKVQPIARVWYKGDQKQVQHACPTPLIALINRDNGAGV PDVGELLNYDADNVQHRYKPQAQPLRLIIPRLHLYVAD

# >DM\_train784

ASSSYYEQYHSLNEIYSWIEVMTERYPDMVEKIHIGSSYEKYPLYVLKVSKKEQRAKNAMWIDCGIHAR EWISPAFCLWFVGSVTYYYGKEKMHTNLLKHMDFYIMPVVNVDGYDYTWKKDRMWRKNRSLHEK NACVGTDLNRNFASKHWCGEGASSSSCSEIYCGTYPESEPEVKAVADFLRRNIKHIKAYISMHSYSQKI VFPYSYSRSRSKDHEELSLVAREAVFAMENIHRNIRYTHGSGSESLYLAPGGSDDWIYDLGIKYSFTFEL RDKGKYGFLLPESYIRPTCSEALVAVAKIASHVVKNV

# >DM\_train785

NILVIGTGAIGSFYGALLAKTGHCVSVVSRSDYETVKAKGIRIRSATLGDYTFRPAAVVRSAAELETKPDC TLLCIKVVEGADRVGLLRDAVAPDTGIVLISNGIDIEPEVAAAFPDNEVISGLAFIGVTRTAPGEIWHQA

YGRLMLGNYPGGVSERVKTLAAAFEEAGIDGIATENITTARWQKCVWNAAFNPLSVLSGGLDTLDILS TQEGFVRAIMQEIRAVAAANGHPLPEDIVEKNVASTYKMPPYKTSMLVDFEAGQPMETEVILGNAVR AGRRTRVAIPHLESVYALMKLLELRTSKSLWGN

### >DM train786

CLGTIGPVTPLDASDFALDIRMPGVTPKESDTYFCMSMRLPVDEEAFVIDFKPRASMDTVHHMLLFGC NMPSSTGSYWFCDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGETGSKYFVLQVHYGDISAFR DNHKDCSGVSVHLTRVPQPLIAGMYLMMSVDTVIPPGEKVVNADISCQYKMYPMHVFAYRVHTHH LGKVVSGYRVRNGQWTLIGRQNPQLPQAFYPVEHPVDVTFGDILAARCVFTGEGRTEATHIGGTSSD EICNLYIMYYMEAKYALSFMTCTKNVAPDMFRTIPAEANIPIP

## >DM\_train788

MEKILIFGHQNPDTDTICSAIAYADLKNKLGFNAEPVRLGQVNGETQYALDYFKQESPRLVETAANEV NGVILVDHNERQQSIKDIEEVQVLEVIDHHRIANFETAEPLYYRAEPVGCTATILNKMYKENNVKIEKEI AGLMLSAIISDSLLFKSPTCTDQDVAAAKELAEIAGVDAEEYGLNMLKAGADLSKKTVEELISLDAKEFT LGSKKVEIAQVNTVDIEDVKKRQAELEAVISKVVAEKNLDLFLLVITDILENDSLALAIGNEAAKVEKAFN VTLENNTALLKGVVSRKKQVVPVLTDAMAE

# >DM\_train789

MGSSHHHHHSSGENLYFQGHMKHGIYYSYWEHEWSAKFGPYIEKVAKLGFDIIEVAAHHINEYSDAE LATIRKSAKDNGIILTAGIGPSKTKNLSSEDAAVRAAGKAFFERTLSNVAKLDIHTIGGALHSYWPIDYSQ PVDKAGDYARGVEGINGIADFANDLGINLCIEVLNRFENHVLNTAAEGVAFVKDVGKNNVKVMLDT FHMNIEEDSFGDAIRTAGPLLGHFHTGESNRRVPGKGRMPWHEIGLALRDINYTGAVIMEPFVKTGG TIGSDIKVWRDLSGGADIAKMDEDARNALAFSRFVLGG

# >DM train790

GSSGFKKLVSPSSAVEKCIVSVSYRGNNLNGLWLGDSIYCPRHVLGKFSGDQWGDVLNLANNHEFEV VTQNGVTLNVVSRRLKGAVLILQTAVANAETPKYKFVKANCGDSFTIACSYGGTVIGLYPVTMRSNGT

IRASFLAGACGSVGFNIEKGVVNFFYMHHLELPNALHTGTDLMGEFYGGYVDEEVAQRVPPDNLVTN NIVAWLYAAIISVKESSFSQPKWLESTTVSIEDYNRWASDNGFTPFSTSTAITKLSAITGVDVCKLLRTIM VKSAQWGSDPILGQYNFEDELTPESVFNQVGGVRLQ

### >DM train792

MSADYPRDLIGYGNNPPHPHWPGDARIALSFVLNYEEGGERCVLHGDKESEAFLSEMVAAQPLQGV RHMSMESLYEYGSRAGVWRLLKLFKRRNVPLTVFAVAMAAQRNPEVIRAMVADGHEICSHGYRWID YQYMDEAQEREHMLEAIRILTELTGQRPVGWYTGRTGPNTRRLVMEEGGFLYDSDTYDDDLPYWDP ASTAEKPHLVIPYTLDTNDMRFTQVQGFNNGEQFFQYLKDAFDVLYEEGATAPKMLSIGLHCRLIGRP ARMAALERFIQYAQSHDKVWFARREDIARHWHREHPFQETEA

### >DM train793

MNVVIVRYGEIGTKSRQTRSWFEKILMNNIREALVTEEVPYKEIFSRHGRIIVKTNSPKEAANVLVRVFGI VSISPAMEVEASLEKINRTALLMFRKKAKEVGKERPKFRVTARRITKEFPLDSLEIQAKVGEYILNNENCE VDLKNYDIEIGIEIMQGKAYIYTEKIKGWGGLPIGTEGRMIGILHDELSALAIFLMMKRGVEVIPVYIGKD DKNLEKVRSLWNLLKRYSYGSKGFLVVAESFDRVLKLIRDFGVKGVIKGLRPNDLNSEVSEITEDFKMFP VPVYYPLIALPEEYIKSVKERLGL

# >DM\_train794

ESTSLYKKAGLKPQVYHVDAFTSQPFRGNSAGVVFPADNLSEAQMQLIARELGHSETAFLLHSDDSD VRIRYFTPTVEVPICGHATVAAHYVRAKVLGLGNCTIWQTSLAGKHRVTIEKHNDDYRISLEQGTPGFE PPLEGETRAAIINALHLTEDDILPGLPIQVATTGHSKVMIPLKPEVDIDALSPDLNALTAISKKIGCNGFFP FQIRPGKNETDGRMFSPAIGIVEDPVTGNANGPMGAWLVHHNVLPHDGNVLRVKGHQGRALGRD GMIEVTVTIRDNQPEKVTISGTAVILFHAEWAIEL

# >DM train795

MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPRLAILQVGNRDDSNLYINVKLKAAEEIGIKATHI KLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIAPEKDVDGLTSINAGRLARGDL

NDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIVGAPMHDLLLWNNATVTTCHSKTAHLDEEVNK GDILVVATGQPEMVKGEWIKPGAIVIDCGINYVPDDKKPNGRKVVGDVAYDEAKERASFITPVPGGV GPMTVAMLMQSTVESAKRFLEKFKPGKWMIQ

### >DM train796

APADPVPTVFFGDSYTANFGIAPVTNQDSERGWCFQAKENYPAVATRSLADKGITLDVQADVSCGG ALIHHFWEKQELPFGAGELPPQQDALKQDTQLTVGSLGGNTLGFNRILKQCSDELRKPSLLPGDPVD GDEPAAKCGEFFGTGDGKQWLDDQFERVGAELEELLDRIGYFAPDAKRVLVGYPRLVPEDTTKCLTA APGQTQLPFADIPQDALPVLDQIQKRLNDAMKKAAADGGADFVDLYAGTGANTACDGADRGIGGL LEDSQLELLGTKIPWYAHPNDKGRDIQAKQVADKIEEILNR

## >DM\_train797

IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAGQYT CHKGGEVLSHSLLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWLTTISTDLTFSVKSS RGSSDPQGVTCGAATLSAERVRGDNKEYEYSVECQEDSACPAAEESLPIEVMVDAVHKLKYENYTSSF FIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDRVFTDKTSA TVICRKNASISVRAQDRYYSSSWSEWASVPCS

# >DM\_train798

GMGDSAGLPPIYADKPIELAPAKIITSFPVNTFLENLASAPDGTIFVTNHEVGEIVSITPDGNQQIHATVE GKVSGLAFTSNGDLVATGWNADSIPVVSLVKSDGTVETLLTLPDAIFLNGITPLSDTQYLTADSYRGAI WLIDVVQPSGSIWLEHPMLARSNSESVFPAANGLKRFGNFLYVSNTEKMLLLRIPVDSTDKPGEPEIFV EQTNIDDFAFDVEGNLYGATHIYNSVVRIAPDRSTTIIAQAEQGVIGSTAVAFGQTEGDCTAIYVVTNG GMFLPPPTGVVPANVVRLEVGKPGYPLG

# >DM\_train799

MDLEMMLDEDYKEGICLIDFSQIALSTALVNFPDKEKINLSMVRHLILNSIKFNVKKAKTLGYTKIVLCID NAKSGYWRRDFAYYYKKNRGKAREESTWDWEGYFESSHKVIDELKAYMPYIVMDIDKYEADDHIAVL

VKKFSLEGHKILIISSDGDFTQLHKYPNVKQWSPMHKKWVKIKSGSAEIDCMTKILKGDKKDNVASVK VRSDFWFTRVEGERTPSMKTSIVEAIANDREQAKVLLTESEYNRYKENLVLIDFDYIPDNIASNIVNYYN SYKLPPRGKIYSYFVKAGLSKLTNSINEF

### >DM train800

MNNQCKTIAHVLRVNNGQELHVWETPPKENVPFKNNTILIASGFARRMDHFAGLAEYLSTNGFHVF RYDSLHHVGLSSGSIDEFTMTTGKNSLCTVYHWLQTKGTQNIGLIAASLSARVAYEVISDLELSFLITAV GVVNLRDTLEKALGFDYLSLPIDELPNDLDFEGHKLGSEVFVRDCFEHHWDTLDSTLDKVANTSVPLIA FTANNDDWVKQEEVYDMLAHIRTGHCKLYSLLGSSHDLGENLVVLRNFYQSVTKAAIAMDGGSLEID VDFIEPDFEOLTIATVNERRLKAEIENRTPEMA

## >DM\_train801

GMDISGRDVETRLTLAREFMSGVDELPTVPDIVLRIAGKLNDPDVAIDEVADLLLQDQVLTARVVHLA NSPLYSAARPISSIRDAVIYLGLDLLREAIFTCAIVDLFKTGKGPLNRSTLWAHSLGVARIAKLIAERTGFL NPVNVYVAGLLHDVGEVFINFFRGKEFSQVVTLVDEEKITFGQAEERLFGTSHCEVGFALAKRWSLNEF ICDTILYHHDIEAVPYKQAAIVAMVAFADEYCTLRRLGFEGHKPVDSVRTLLENHPSWGVIRRSLGGSD FDEKLIVAELDSSIVEIRAAVDELFLL

# >DM\_train802

MQRLSPGEFKTLISKERKSHFITPFALVYKTFCDLGYDQKNSDYFLNNPSEYIIAMRKNCWKEFEPFEKE FTTRMLSYLIDEERIKDMSPYDAIRDFTMEYPTHIYDLALSNTQSRRSRAGKEFESILELLMMGAGIPVD VQGAIGKSFFQKNQIGKLVDLVMPGVVQYTSNKRNTMLISAKTTLRERWQEVPEEVNRTGIREMYLA TLDDSFSEETINILYEANVVVVTTVENKNFKYKNNNRVLTFEDMLQSAMELSRKWNNVSYTDSEKEEI OOSILKOIEKYSDFPYVVNYYRNRLSALFD

# >DM\_train803

VDYNAPLNPKSELFLDDWHIPKFNRFISFTLDVLIDKYKDIFKDFIKLPSRKFHPQYYYKIQQPMSINEIKS RDYEYEDGPSNFLLDVELLTKNCQAYNEYDSLIVKNSMQVVMLIEFEVLKAKNLKRNYLINSEVKAKLL

HYLNKLVDATEKKINQALLGASSPKNLDDKVKLSEPFMELVDKDELPEYYEIVHSPMALSIVKQNLEIG QYSKIYDFIIDMLLVFQNAHIFNDPSALIYKDATTLTNYFNYLIQKEFFPELQDLNERGEINLEFDKFEFEN YLAIGGGGPAAAGALAISALDND

### >DM train804

MSSDKNGDILRPLSDSEVDELLDLYKVKFGIRNFHYLLLYNQRKWDRQLSEAQIPRNDLNHISLRKQFY THRRGNFRTWGTYVSLHRDIVQSVSFFSWQPDGAAELWECLEQTQLIEWTQGALLTNVDLGFCNRV KELAVSRGVTAIQPRQCFGMVLSHEDAFCAKVPDLPSEFEIRRLRAEDAAMVHDSWPNKGEGSLTYL QALVRFNKSLGICRSDTGELIAWIFQNDFSGLGMLQVLPKAERRGLGGLLAAAMSREIARGEEITLTA WIVATNWRSEALLKRIGYQKDLVNEWIKLVPNSS

## >DM\_train805

MRLGDAAELCYNLTSSYLQIAAESDSIIAQTQRAINTTKSILINETFPKWSPLNGEISFSYNGGKDCQVL LLLYLSCLWEYYIVKLSQSQFDGKFHRFPLTKLPTVFIDHDDTFKTLENFIEETSLRYSLSLYESDRDKCET MAEAFETFLQVFPETKAIVIGIRHTDPFGEHLKPIQKTDANWPDFYRLQPLLHWNLANIWSFLLYSNEP ICELYRYGFTSLGNVEETLPNPHLRKDKNSTPLKLNFEWEIENRYKHNEVTKAEPIPIADEDLVKIENLHE DYYPGWYLVDDKLERAGRIKKK

# >DM\_train806

GTRPRRKKHDYRIALFGGSQPQSCRYFNPKDYSWTDIRCPFEKRRDAACVFWDNVVYILGGSQLFPIK RMDCYNVVKDSWYSKLGPPTPRDSLAACAAEGKIYTSGGSEVGNSALYLFECYDTRTESWHTKPSML TQRCSHGMVEANGLIYVCGGSLGNNVSGRVLNSCEVYDPATETWTELCPMIEARKNHGLVFVKDKIF AVGGQNGLGGLDNVEYYDIKLNEWKMVSPMPWKGVTVKCAAVGSIVYVLAGFQGVGRLGHILEYN TETDKWVANSKVRAFPVTSCLICVVDTCGANEETLET

# >DM\_train807

LKQKILNRESGIITYGITPPKKNNTEEKIKEISQKHIERISGLDIDGLVIYDLQDEKERVSEERPFPFIETIDPQI YSENYLKDLKIPKIIYRCVGKYTPDEFRRLTRPVSGQDAFSVFVGAASRNQSVLLKLSDAYKIRQDVNPD

LLLGGVAIPERHMKNTDEHLRIIDKINKGCKYFITQAVYNVEAAKDFLSDYYYYSKNNNLKMVPIIFTLT PCGSTKTLEFMKWLGISIPRWLENDLMNCEDILNKSVSLSKSIFNELMEFCLEKGIPIGCNIESVSVRKVEI EASIALAKDIKYIMKG

### >DM train808

GAMERKANYAVDAYFREALRVSEPKAPKAPRPPKQPIVQDFQFFPPRLFELLDQEIYYFRKTVGYKVPK NTELGSDATKVQREEQRKIDEAEPLTEEEIQEKENLLSQGFTAWTKRDFNQFIKANEKYGRDDIDNIAK DVEGKTPEEVIEYNAVFWERCTELQDIERIMGQIERGEGKIQRRLSIKKALDQKMSRYRAPFHQLRLQY GNNKGKNYTEIEDRFLVCMLHKLGFDKENVYEELRAAIRASPQFRFDWFIKSRTALELQRRCNTLITLIE RENIELEEKERAEKKKKAPKGSVSAGS

## >DM\_train810

TEEPDFTALCQKLKIPDHVRERAWLTWEKVSSVDGVLGGYIQKKKELWGICIFIAAVDLDEMSFTFTEL QKNIEISVHKFFNLLKEIDTSTKVDNAMSRLLKKYDVLFALFSKLERTCELIYLTQPSSSISTEINSALVLKV SWITFLLAKGEVLQMEDDLVISFQLMLCVLDYFIKLSPPMLLKEPYKTAVIPINGSPRTPRRGQNRSARI AKQLENDTRIIEVLCKEHECNIDEVKNVYFKNFIPFMNSLGLVTSNGLPEVENLSKRYEEIYLKNKDLDA RLFLDHDKTLQTDSIDSFETQR

# >DM\_train811

EERPYAYVKISDGCDRGCTFCSIPSFKGSLRSRSIEDITREVEDLLKEGKKEIILVAQDTTSYGIDLYRKQAL PDLLRRLNSLNGEFWIRVMYLHPDHLTEEIISAMLELDKVVKYFDVPVQHGSDKILKLMGRTKSSEELK KMLSSIRERFPDAVLRTSIIVGFPGETEEDFEELKQFVEEIQFDKLGAFVYSDEEGTVAFNLKEKVDPEMA KRRQEELLLLQAEISNSRLDRFVGKKLKFLVEGKEGKFLVGRTWTEAPEVDGVVFVRGKGKIGDFLEVVI KEHDEYDMWGSVILEHHHHHH

# >DM train812

KLFLFEFATCGERIEDSTAVEGLAMFKSAFDGFKNYYEITGFVRPEFSCLFTLPVDSMDSMEKYLEKSDA FLIIAPEDDFLLYTLTKKAEKYCENLGSSSRAIAVTSDKWELYKKLRGEVQVPQTSLRPLDCKFIIKPRTAC

AGEGIGFSDEVPDGHIAQEFIEGINLSVSLAVGEDVKCLSVNEQIINNFRYAGAVVPARISDEVKREVVE EAVRAVECVEGLNGYVGVDIVYSDQPYVIEINARLTTPVVAFSRAYGASVADLLAGGEVKHVRRQMV RKSKSAEKPYVSVGDYTLEIIDLD

### >DM train813

MGPFDPEEMLFIFTRCMEDNLEDGANRLPMLAKWKEWINEPVDSPATQCFGKCVLVRTGLYDPVAQ KFDASVIQEQFKAYPSLGEKSKVEAYANAVKQLPSTNNDCAAVFKAYDPVHKAHKDTSKNLFHGNKE LTKGLYEKLGKDIRQKKQSYFEFCENKYYPAGSDKRQQLCQIRQYTVLDDALFKEHTDCVMKGIRYITK DNQLDVEEVKRDFKLVNKDTKALEEVLNDCKSKEPSNAKEKSWHYYKCLVESSVKDDFKEAFDYREV RSQIYAFNLPKNQAYSKPAVQSQVMEIDGKQCPQ

## >DM\_train814

MKITVLGCGALGQLWLTALCKQGHEVQGWLRVPQPYCSVNLVETDGSIFNESLTANDPDFLATSDLL LVTLKAWQVSDAVKSLASTLPVTTPILLIHNGMGTIEELQNIQQPLLMGTTTHAARRDGNVIIHVANGI THIGPARQQDGDYSYLADILQTVLPDVAWHNNIRAELWRKLAVNCVINPLTAIWNCPNGELRHHPQ EIMQICEEVAAVIEREGHHTSAEDLRDYVMQVIDATAENISSMLQDIRALRHTEIDYINGFLLRRARAH GIAVPENTRLFEMVKRKESEYERIGTGLPRPW

# >DM\_train815

GPVDSTDVRRITPKKLRELSDLLRTHLSSAATKQLDMGGVLSDLDTMLVALDKAEREGGVDKDQLKSF NSLILKTYRVIEDYVKGREGDTKNSSTEVSPYHRSNFMLSIVEPSLQRIQKHLDQTHSFSDIGSLVRAHK HLETLLEVLVTLSQQGQPVSSETYGFLNRLAEAKITLSQQLNTLQQQQESAKAQLSILINRSGSWADV ARQSLQRFDSTRPVVKFGTEQYTAIHRQMMAAHAAITLQEVSEFTDDMRNFTVDSIPLLIQLGRSSLM DEHLVEQREKLRELTTIAERLNRLEREWM

# >DM\_train816

MSLTNDERILSWNETPSKPRYTPPPGAIDAHCHVFGPMAQFPFSPKAKYLPRDAGPDMLFALRDHLG FARNVIVQASCHGTDNAATLDAIARAQGKARGIAVVDPAIDEAELAALHEGGMRGIRFNFLKRLVDD

APKDKFLEVAGRLPAGWHVVIYFEADILEELRPFMDAIPVPIVIDHMGRPDVRQGPDGADMKAFRRLL DSREDIWFKATCPDRLDPAGPPWDDFARSVAPLVADYADRVIWGTDWPHPNMQDAIPDDGLVVD MIPRIAPTPELQHKMLVTNPMRLYWSEEMEGHHHHHH

### >DM train817

MKGLKERQDRRLGAFLGLAVGDALGAQVEGLPKGTFPEVREMKGGGPHRLPPGFWTDDTSQALCL AESLLQRGFDPKDQMDRYLRWYREGYRSATGVCFGLGHATRRALERYAATGDPYAGDEAGAGNGP LMRLAPLVLAYENHPDLLSLARRAARTTHGAREALEATEVLAWLLREALRGAPKEALLALEPFRGADLH PALRRVVEGGFWEAPEEGPGYAPGTLAAALWAFARGRDFEEGMRLAVNLGGDADTVGAVYGQLAG AYYGLGAIPGRWLRALHLREEMEALALALYRMSMASPRE

## >DM\_train819

TKIDAYAHILPAKYYQKMLSVEPNIPNMFPFIKIKTLMDLDERLTKWPDQNTKQVISLANISPEDFTDSK TSAELCQSANEELSNLVDQHPGKFAGAVAILPMNNIESACKVISSIKDDENLVGAQIFTRHLGKSIADK EFRPVLAQAAKLHVPLWMHPVFDARKPDNNLVFSWEYELSQAMLQLVQSDLFQDYPNLKILVHHA GAMVPFFSGRIDHILDEKHAQDFKKFYVDTAILGNTPALQLAIDYYGIDHVLFGTDAPFAVMPSGADQ IITQAINDLTISDKDKQKIFHDNYYSLIKE

# >DM\_train820

MSQLLQDYLNWENYILRRVDFPTSYVVEGEVVRIEAMPRLYISGMGGSGVVADLIRDFSLTWNWEVE VIAVKDYFLKARDGLLIAVSYSGNTIETLYTVEYAKRRIPAVAITTGGRLAQMGVPTVIVPKASAPRAAL PQLLTAALHVVAKVYGIDVKIPEGLEPPNEALIHKLVEEFQKRPTIIAAESMRGVAYRVKNEFNENAKIEP SVEILPEAHHNWIEGSERAVVALTSPHIPKEHQERVKATVEIVGGSIYAVEMHPKGVLSFLRDVGIASVK LAEIRGVNPLATPRIDALKRRLO

# >DM\_train821

MAAINTKVKKAVIPVAGLGTRMLPATKAIPKEMLPLVDKPLIQYVVNECIAAGITEIVLVTHSSKNSIEN HFDTSFELEAMLEKRVKRQLLDEVQSICPPHVTIMQVRQGLAKGLGHAVLCAHPVVGDEPVAVILPD

VILDEYESDLSQDNLAEMIRRFDETGHSQIMVEPVADVTAYGVVDCKGVELAPGESVPMVGVVEKPK ADVAPSNLAIVGRYVLSADIWPLLAKTPPGAGDEIQLTDAIDMLIEKETVEAYHMKGKSHDCGNKLGY MQAFVEYGIRHNTLGTEFKAWLEEEMGIKK

### >DM train822

MTATAETSTGTKVVLGQNQYGKAEVRLVKVTRNTARHEIQDLNVTSQLRGDFEAAHTAGDNAHVV ATDTQKNTVYAFARDGFATTEEFLLRLGKHFTEGFDWVTGGRWAAQQFFWDRINDHDHAFSRNKS EVRTAVLEISGSEQAIVAGIEGLTVLKSTGSEFHGFPRDKYTTLQETTDRILATDVSARWRYNTVEVDFD AVYASVRGLLLKAFAETHSLALQQTMYEMGRAVIETHPEIDEIKMSLPNKHHFLVDLQPFGQDNPNE VFYAADRPYGLIEATIOREGSRADHPIWSNIAGFC

## >DM\_train823

MRGSHHHHHHTDPHASSVPLEWPLSSQSGSYELRIEVQPKPHHRAHYETEGSRGAVKAPTGGHPVV QLHGYMENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTSYEKIVGNTKVLEIPLEPKNNMRATI DCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHIPESSGRIVSLQTASNPIECSQRSAHELPMVERQ DTDSCLVYGGQQMILTGQNFTSESKVVFTEKTTDGQQIWEMEATVDKDKSQPNMLFVEIPEYRNKHI RTPVKVNFYVINGKRKRSQPQHFTYHPV

# >DM\_train824

TVNQAKIFAQTTKMLEFAKQLLETDDFSTLREAYYVSKNWGEARFDDQQASNNVIEDLEAALGVLRE HLGFIPEEDGSSVVGPLKIIEETPEGELVVDCTKLGTGAYNIPNDVTKLNLETDADFILAIETSGMFARLN AERFWDKHNCILVSLKGVPARATRRFIKRLHEEHDLPVLVFTDGDPYGYLNIYRTLKVGSGKAIHLADK LSIPAARLIGVTPQDIIDYDLPTHPLKEQDIKRIKDGLKNDDFVRSFPEWQKALKQMLDMGVRAEQQS LAKYGLKYVVNTYLPEKIKDESTWLP

# >DM train825

GMSSKAEKDIKWGIAPIGWRNDDIPSIGKDNNLQQLLSDIVVAGFQGTEVGGFFPGPEKLNYELKLRN LEIAGQWFSSYIIRDGIEKASEAFEKHCQYLKAINAPVAVVSEQTYTIQRSDTANIFKDKPYFTDKEWDE

VCKGLNHYGEIAAKYGLKVAYHHHMGTGIQTKEETDRLMANTDPKLVGLLYDTGHIAVSDGDYMAL LNAHIDRVVHVHFKDVRRSKEEECRAKGLTFQGSFLNGMFTVPGDGDLDFKPVYDKLIANNYKGWIV VEAEQDPSKANPLEMAQIAHRYIKQHLIEN

### >DM train826

MKPADLTNADRIALELGHAGRNAIPYLDDDRNADRPFTLNTYRPYGYTPDRPVVVVQHGVLRNGAD YRDFWIPAADRHKLLIVAPTFSDEIWPGVESYNNGRAFTAAGNPRHVDGWTYALVARVLANIRAAEI ADCEQVYLFGHSAGGQFVHRLMSSQPHAPFHAVTAANPGWYTLPTFEHRFPEGLDGVGLTEDHLA RLLAYPMTILAGDQDIATDDPNLPSEPAALRQGPHRYARARHYYEAGQRAAAQRGLPFGWQLQVV PGIGHDGQAMSQVCASLWFDGRMPDAAELARLAGSQSA

## >DM\_train827

ATGDFPNKPLDIIVTFPPGGGTDMLARLIGNYLTESLGQTAVVENRPGASGNVGARLVADRAPDGYS LLMVNSSFAVNPGVFRNLPFDPKKDFAAVINVAYVPSVFVVPAGSKYKTLGELMAAAKQTNTQVTYG SCGNGTPQHLAGELLNVSAKTHMVHVPYKGCGPALNDVLGSQIGLAVVTASSAIPFIKAGKLQALAV TSKERSALLPEVPTVAEQGVAGYELNQWHGLLVPGATPMAVRQKLYDGIAKVMQRDDVQKKLADL GYSTASDGPEVFQKMVETDIDRFSALTKQIGLKVD

# >DM\_train828

QGLVPQGQTQVLQGGNKVPVVNIADPNSGGVSHNKFQQFNVANPGVVFNNGLTDGVSRIGGALT KNPNLTRQASAILAEVTDTSPSRLAGTLEVYGKGADLIIANPNGISVNGLSTLNASNLTLTTGRPSVNG GRIGLDVQQGTVTIERGGVNATGLGYFDVVARLVKLQGAVSSKQGKPLADIAVVAGANRYDHATRR ATPIAAGARGAAAGAYAIDGTAAGAMYGKHITLVSSDSGLGVRQLGSLSSPSAITVSSQGEIALGDAT VORGPLSLKGAGVVSAGKLASGGGAVNVAGGGAV

# >DM train829

MPIIIDKDLPARKVLQEENIFVMTKERAETQDIRALKIAILNLMPTKQETEAQLLRLIGNTPLQLDVHLLH MESHLSRNVAQEHLTSFYKTFRDIENEKFDGLIITGAPVETLSFEEVDYWEELKRIMEYSKTNVTSTLHIC

WGAQAGLYHHYGVQKYPLKEKMFGVFEHEVREQHVKLLQGFDELFFAVHSRHTEVRESDIREVKELT LLANSEEAGVHLVIGQEGRQVFALGHSEYSCDTLKQEYERDRDKGLNIDVPKNYFKHDNPNEKPLVR WRSHGNLLFSNWLNYYVYQETPYVL

### >DM train831

MTDDKKIRAAIVGYGNIGRYALQALREAPDFEIAGIVRRNPAEVPFELQPFRVVSDIEQLESVDVALVCS PSREVERTALEILKKGICTADSFDIHDGILALRRSLGDAAGKSGAAAVIASGWDPGSDSVVRTLMQAIV PKGITYTNFGPGMSMGHTVAVKAIDGVKAALSMTIPLGTGVHRRMVYVELLPGHNLEEVSAAIKADE YFVHDETHVIQVDEVDALIDMGHGVRMVRKGVSGSTQNQRMSFDMEINNPALTGQVLVCAARAA MRQQPGAYTLQEIPVIDLLPGDREQWIGKLC

## >DM\_train832

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSISLKFYKELQA HGADELLKRVYGSYLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEGKE GENRAVIHYRDDETMYVESKKDRVTVVFSTVFKDDDDVVIGKVFMQEFKEGRRASHTAPQVLFSHRE PPLELKDTDAAVGDNIGYITFVLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFL KVLNRARPDAEKKEMKTITGKTFSSR

MAIPAFHPGELNVYSAPGDVADVSRALRLTGRRVMLVPTMGALHEGHLALVRAAKRVPGSVVVVSIF VNPMQFGAGGDLDAYPRTPDDDLAQLRAEGVEIAFTPTTAAMYPDGLRTTVQPGPLAAELEGGPRP THFAGVLTVVLKLLQIVRPDRVFFGEKDYQQLVLIRQLVADFNLDVAVVGVPTVREADGLAMSSRNR YLDPAQRAAAVALSAALTAAAHAATAGAQAALDAARAVLDAAPGVAVDYLELRDIGLGPMPLNGS GRLLVAARLGTTRLLDNIAIEIGTFAGTDRPDGYR

MEDLYPSRQNNQPKILKRKDPVIYTDRSKDNQAPITKEQLDSYEKNGFLQIKNFFSEDEVIDMQKAIFE LQDSIKDVASDKVIREPESNDIRSIFHVHQDDNYFQDVANDKRILDIVRHLLGSDVYVHQSRINYKPGF KGKEFDWHSDFETWHVEDGMPRMRAISVSIALSDNYSFNGPLMLIPGSHNYFVSCVGETPDNNYKE SLKKQKLGVPDEESLRELTRIGGGISVPTGKAGSVTLFESNTMHGSTSNITPYPRNNLFMVYNSVKNRL

# VEPFSGGEKRPEYIAVREKQPVYSAVN

MDLVEEILRLKEERNAIILAHNYQLPEVQDIADFIGDSLELARRATRVDADVIVFAGVDFMAETAKILNP DKVVLIPSREATCAMANMLKVEHILEAKRKYPNAPVVLYVNSTAEAKAYADVTVTSANAVEVVKKLDS DVVIFGPDKNLAHYVAKMTGKKIIPVPSKGHCYVHQKFTLDDVERAKKLHPNAKLMIHPECIPEVQEK ADIIASTGGMIKRACEWDEWVVFTEREMVYRLRKLYPQKKFYPAREDAFCIGMKAITLKNIYESLKDMK YKVEVPEEIARKARKAIERMLEMSK

MKKSALEKLLSLIENLTNQEFKQATNSLISFIYKLNRNEVIELVRSIGILPEAIKPSSTQEKLFSKAGDIVLAK AFQLLNLNSKPLEQRGNAGDVIALSKEFNYGLVADAKSFRLSRTAKNQKDFKVKALSEWREDKDYAV LTAPFFQYPTTKSQIFKQSLDENVLLFSWEHLAILLQLDLEETNIFSFEQLWNFPKKQSKKTSVSDAENN FMRDFNKYFMDLFKIDKDTLNQLLQKEINFIEERSLIEKEYWKKQINIIKNFTREEAIEALLKDINMSSKIET IDSFIKGIKSNDRLYL

FVSSHRYVETMLVADQSMAEFHGSGLKHYLLTLFSVAARLYKHPSIRNSVSLVVVKILVIHDEQKGPEV TSNAALTLRNFCNWQKQHNPPSDRDAEHYDTAILFTRQDLCGSQTCDTLGMADVGTVCDPSRSCS VIEDDGLQAAFTTAHELGHVFNMPHDDAKQCASLNGVNQDSHMMASMLSNLDHSQPWSPCSAY MITSFLDNGHGECLMDKPQNPIQLPGDLPGTSYDANRQCQFTFGEDSKHCPDAASTCSTLWCTGTS GGVLVCQTKHFPWADGTSCGEGKWCINGKCVNKLVPR

MMPEGKIIKALSGFYYVLDESEDSDKVIQCRGRGIFRKNKITPLVGDYVVYQAENDKEGYLMEIKERTN ELIRPPICNVDQAVLVFSAVQPSFSTALLDRFLVLVEANDIQPIICITKMDLIEDQDTEDTIQAYAEDYRN IGYDVYLTSSKDQDSLADIIPHFQDKTTVFAGQSGVGKSSLLNAISPELGLRTNEISEHLGRGKHTTRHV ELIHTSGGLVADTPGFSSLEFTDIEEEELGYTFPDIREKSSSCKFRGCLHLKEPKCAVKQAVEDGELKQYR YDHYVEFMTEIKDRKPRY

GLDVAISQNGFFRLVDSNGSVFYSRNGQFKLDENRNLVNMQGMQLTGYPATGTPPTIQQGANPAP ITIPNTLMAAKSTTTASMQINLNSTDPVPSKTPFSVSDADSYNKKGTVTVYDSQGNAHDMNVYFVKT KDNEWAVYTHDSSDPAATAPTTASTTLKFNENGILESGGTVNITTGTINGATAATFSLSFLNSMQQNT GANNIVATNQNGYKPGDLVSYQINNDGTVVGNYSNEQEQVLGQIVLANFANNEGLASQGDNVW AATQASGVALLGTAGSGNFGKLTNGALEASNVDLSK

MIKQRTLKNIIRATGVGLHSGEKVYLTLKPAPVDTGIVFSRTDLDPVVEIPARAENVGETTMSTTLVKGD VKVDTVEHLLSAMAGLGIDNAYVELSASEVPIMDGSAGPFVFLIQSAGLQEQEAAKKFIRIKREVSVEE GDKRAVFVPFDGFKVSFEIDFDHPVFRGRTQQASVDFSSTSFVKEVSRARTFGFMRDIEYLRSQNLAL GGSVENAIVVDENRVLNEDGLRYEDEFVKHKILDAIGDLYLLGNSLIGEFRGFKSGHALNNQLLRTLIA DKDAWEVVTFEDARTAPISYMRP

MEFKLQELNLTNQDTGPYGITVSDKGKVWITQHKANMISCINLDGKITEYPLPTPDAKVMCLTISSDG EVWFTENAANKIGRITKKGIIKEYTLPNPDSAPYGITEGPNGDIWFTEMNGNRIGRITDDGKIREYELPN KGSYPSFITLGSDNALWFTENQNNAIGRITESGDITEFKIPTPASGPVGITKGNDDALWFVEIIGNKIGRI TTSGEITEFKIPTPNARPHAITAGAGIDLWFTEWGANKIGRLTSNNIIEEYPIQIKSAEPHGICFDGETIWF AMECDKIGKLTLIKDNME

CVIFPVEIDVSQTIIRDCQVDKQTRELVYINKIMNTQLTKPVLMMFNISGPIRSVTRKNNNLRDRIKSKP DEQFDQLEKDYSDQMDGFHDSIKYFKDEHYSVSCQNGSVLKSKFAKILKSHDYTDKKSIEAYEKYCLPK LVDERNDYYVAVCVLKPGFENGSNQVLSFEYNPIGNKVIVPFAHEINDTGLYEYDVVAYVDSVQFDGE QFEEFVQSLILPSSFKNSEKVLYYNEASKNKSMIYKALEFTTESSWGKSEKYNWKIFCNGFIYDKKSKVLY VKLHNVTSALNKNVILNTIK

MLIDPIELYRYPEKWIKDRDAEKKVRSGLYILTEDGYLRRGITTGTTASAAAVAAIASLKEKVEKVKVSTP AGVDVEVEVEAEKGFARVRKFSGDHEFDVTNGIIFEAEVCETSGIFFGRGVGVKAGEKAVSRSAKLOILE

NFIKASREFNFSGGVRISVPDGEEVAKKTGNEKVGIKGGISILGTTGFVEPWCKKLVETKLKIAMQYHRI AITTGRKAWLYARKKFPEYQPFVFGVHIDEALKHPGEKIIVGFPGLLKIWAGSRDRIEERAREEGVRVVVI EDDMDSWVWDVQGTDH

SDESFEFDVSVIGLGAMGTIMAQVLLKQGKRVAIWNRSPGKAAALVAAGAHLCESVKAALSASPATIF VLLDNHATHEVLGMPGVARALAHRTIVDYTTNAQDEGLALQGLVNQAGGHYVKGMIVAYPRNVG HRESHSIHTGDREAFEQHRALLEGLAGHTVFLPWDEALAFATVLHAHAFAAMVTFFEAVGAGDRFGL PVSKTARLLLETSRFFVADALEEAVRRLETQDFKGDQARLDVHADAFAHIAQSLHAQGVWTPVFDAV CQVVQRAAAMGYGDQDIAATTKSFAREQEEGH

MGSDKIHHHHHHMITFIGHVSKDVNVVDGKREIAYGGGVVMGAITSSLLGVKTKVITKCTREDVSKFS FLRDNGVEVVFLKSPRTTSIENRYGSDPDTRESFLISAADPFTESDLAFIEGEAVHINPLWYGEFPEDLIP VLRRKVMFLSADAQGFVRVPENEKLVYRDWEMKEKYLKYLDLFKVDSREAETLTGTNDLRESCRIIRSF GAKIILATHASGVIVFDGNFYEASFRSWSLEGRTGRGDTCTAAFLVGFVFKKMSIEKATKFAAAVTSVK MRHPGPLRREDLEAISGDOYF

GAMVVSPAGADRRIPTWASRVVSGLARDRPVVVTKEDLTQRLTEAGCGRDPDSAIRELRRIGWLVQL PVKGTWAFIPPGEAAISDPYLPLRSWLARDQNAGFMLAGASAAWHLGYLDRQPDGRIPIWLPPAKRL PDGLASYVSVVRIPWNAADTALLAPRPALLVRRRLDLVAWATGLPALGPEALLVQIATRPASFGPWA DLVPHLDDLVADCSDERLERLLSGRPTSAWQRASYLLDSGGEPARGQALLAKRHTEVMPVTRFTTAH SRDRGESVWAPEYOLVDELVVPLLRVIGKA

MSERIVPSGDVELWSDDFGDPADPALLLVMGGNLSALGWPDEFARRLADGGLHVIRYDHRDTGRST TRDFAAHPYGFGELAADAVAVLDGWGVDRAHVVGLSMGATITQVIALDHHDRLSSLTMLLGGGLDI DFDANIERVMRGEPTLDGLPGPQQPFLDALALMNQPAEGRAAEVAKRVSKWRILSGTGVPFDDAEY ARWEERAIDHAGGVLAEPYAHYSLTLPPPSRAAELREVTVPTLVIQAEHDPIAPAPHGKHLAGLIPTAR LAEIPGMGHALPSSVHGPLAEVILAHTRSAA

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGH VADFVLDDLRRYSVDLRYTVFQTTGSVPIATVIINEASGSRTILYYDRSLPDVSATDFEKVDLTQFKWIHI EGRNASEQVKMLQRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAE EALRGLYGRVRKGAVLVCAWAEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGR SVOEALRFGCOVAGKKCGLOGFDGIV

MPAPEAPTSTLPPERPLTNLQQQIQQLVSRQPNLTAGLYFFNLDSGASLNVGGDQVFPAASTIKFPIL VAFFKAVDEGRVTLQERLTMRPDLIAPEAGTLQYQKPNSQYAALEVAELMITISDNTATNMIIDRLGG AAELNQQFQEWGLENTVINNPEPDMKGTNTTSPRDLATLMLKIGQGEILSPRSRDRLLDIMRRTVTN TLLPAGLGKGATIAHKTGDIGIVVGDAGMVDMPNGQRYVAAMMVKRPYNDPRGSELIRQVSRMVY QAFEKLSPPEQKLISEEDLNSAVDHHHHHH

GASTVEKELLRSRRLENSIIEQKGTMRCYAYVMEQNLPENLLFDYENGVITQGLSEHVYKFNRVIPHLK VSEDKFFTQEYSVYHDMCLNQKKNFNLISLSTTPHGSLRESLIKFLAEKDTIYQKQYVITLQFVFLSDDEF SQDMLLDYSHNDKDSIKLKFEKHSISLDSKLVIIENGLEDLPLNFSCDEHPNLPHSGMGIIKVQFFPRDS KSDGNNDPVPVDFYFIELNNLKSIEQFDKSIFKKESCETPIALVLKKLISDTKSFFLLNLNDSKNVNKLLTIS EEVQTQLCKRKKKLT

ELSENFKKLMKYPYRPCTCTRCIEEQRVSAWFDERFNRSMQPLLTAKNAHLEEDTYKWWLRLQREKQ PNNLNDTIRELFQVVPGNVDPLLEKRLVSCRRCAVVGNSGNLKESYYGPQIDSHDFVLRMNKAPTEG FEADVGSKTTHHFVYPESFRELAQEVSMILVPFKTTDLEWVISATTTGRISHTYVPVPAKIKVKKEKILIYH PAFIKYVFDRWLQGHGRYPSTGILSVIFSLHICDEVDLYGFGADSKGNWHHYWENNPSAGAFRKTGV HDGDFESNVTTILASINKIRIFKGR

AITKPLLAATLENIEDVQFPCLATPKIAGIRSVKQTQMLSRTFKPIRNSVMNRLLTELLPEGSDGEISIEGA TFQDTTSAVMTGHKMYNAKFSYYWFDYVTDDPLKKYIDRVEDMKNYITVHPHILEHAQVKIIPLIPVEI NNITELLQYERDVLSKGFEGVMIRKPDGKYKFGRSTLKEGILLKMKQFKDAEATIISMTALFKNTNTKTK DNFGYSKRSTHKSGKVEEDVMGSIEVDYDGVVFSIGTGFDADQRRDFWQNKESYIGKMVKFKYFEM GSKDCPRFPVFIGIRHEEDR

LEVKPEINFVNIGERCNVAGSRKFLRLVNEKKYDEALSIARQQVEDGALVIDVNMDDGLLDARTEMTT FLNLIMSEPEIARVPVMIDSSKWEVIEAGLKCLQGKSIVNSISLKEGEEVFLEHARIIKQYGAATVVMAFD EKGQADTAARKIEVCERAYRLLVDKVGFNPHDIIFDPNVLAVATGIEEHNNYAVDFIEATGWIRKNLPG AHVSGGVSNLSFSFRGNNYIREAMHAVFLYHAIQQGMDMGIVNPGTSVLYSDIPADTLEKIEDVVLN RRPDAAERLIELAEALKETMGG

MPIKETDKEVVLTHPADETTSVHILKYGATVYSWKLKSEEQLWLSTAAKLDGSKPVRGGIPLVFPVFGK NSTDEHLSKLPQHGLARNSTWEFLGQTKENPPTVQFGLKPEIANPELTKLWPMDYLLILTVELGSDYLK TAIEVENTSSSKELKFNWLFHTYFRIEDIEGTMVSNLAGMKLYDQLLKESYVDKHPVVTFNQETDVIYQ NVSAERAIQIVDKGVQIHTLKRYNLPDTVVWNPWIEKSQGMADFEPKTGYQQMICIEPGHVHDFISL APGKKWNAYQLLCKEELKYQAIQ

SRVENSNGQSQPAATSKTVKDNAEIYYDDDDSDRFYFHVWGGEDIHVGLYKEPVDQDEIREASLRTD EWLASELAMTGVLQRQAKGLDLGAGYGGAARFLVRKFGVSIDCLNIAPVQNKRNEEYNNQAGLAD NITVKYGSFLEIPCEDNSYDFIWSQDAFLHSPDKLKVFQECARVLKPRGVMAITDPMKEDGIDKSSIQPI LDRIKLHDMGSLGLYRSLAKECGLVTLRTFSRPDSLVHHYSKVKAELIKRSSEIASFCSPEFQANMKRGL EHWIEGGRAGKLTWGGMLFRKSDKI

MEGGMEKGTFQIKTGFAEMFKGGVIMDVTTPEQAVIAEEAGAVAVMALERVPADIRAQGGVARMS DPKIIKEIMAAVSIPVMAKVRIGHFVEAMILEAIGVDFIDESEVLTPADEEHHIDKWKFKVPFVCGARNL GEALRRIAEGAAMIRTKGEAGTGNVVEAVRHARTMWKEIRYVQSLREDELMAYAKEIGAPFELVKWV HDHGRLPVVNFAAGGIATPADAALMMHLGMDGVFVGSGIFKSGDPRKRARAIVRAVAHYNDPEVL

## AEVSEDLGEPMVGINLDQLKEEERLAKRGW

EPVQVFTDDLGRKVTVPAHPKRIVSLHDLDITIPLIELGVPPVASHGRTRPDGSHFIRSGALLTGVDFDN SSIAFIGTADIDIEAIVAAKPDLIITEPTRNTPIERLEKIAPTVSIDHLKGGAPEIYRKLAELTGTQSQLAILER RYQAQINALKATLDSQKITVSVIQANQGKINVMHSYHSLGRVLRDAGFRFPPLIESIPEGGRMDVSAE RLPELDADFVFATWRGDTGGKPQDELATMEKVMPGWCQFLTACRSGRYVLISREEAISNSFASLGLM AAOIOSQIAGRPLPEAK

MRERIREHLSSEESVGLLFSGCTGINDKTLGARGGEVIMVTSGSGMGKSTFVRQQALQWGTAMGKK VGLAMLEESVEETAEDLIGLHNRVRLRQSDSLKREIIENGKFDQWFDELFGNDTFHLYDSFAEAETDRL LAKLAYMRSGLGCDVIILDHISIVVSASGESDERKMIDNLMTKLKGFAKSTGVVLVVICHLKNPDKGKA HEEGRPVSITDLRGSGALRQLSDTIIALERNQQGDMPNLVLVRILKCRFTGDTGIAGYMEYNKETGWL EPSSYSGEEESHSESTDWSNDTDF

MSFFHASQRDALNQSLAEVQGQINVSFEFFPPRTSEMEQTLWNSIDRLSSLKPKFVSVTYGANSGER DRTHSIIKGIKDRTGLEAAPHLTCIDATPDELRTIARDYWNNGIRHIVALRGDLPPGSGKPEMYASDLVT LLKEVADFDISVAAYPEVHPEAKSAQADLLNLKRKVDAGANRAITQFFFDVESYLRFRDRCVSAGIDVE IIPGILPVSNFKQAKKLADMTNVRIPAWMAQMFDGLDDDAETRKLVGANIAMDMVKILSREGVKDF HFYTLNRAEMSYAICHTLGVRPGL

MWRIELKHAVNWELKMKFFVLPELPTPDVVESGVWRRAIVLDGRAVAVMAYPESERTIVVEGNFENR EWEAVRRKLVEYLGLQNPEELYRFMDGDEKLRMLKNRFYGFGRAGLMSMSVFEGIAKAIIQQQISFVV AEKLAAKIVGRFGDEVEWNGLKFYGFPTQEAILKAGVEGLRECGLSRRKAELIVEIAKEENLEELKEWGE EEAYEYLTSFKGIGRWTAELVLSIALGKNVFPADDLGVRRAVSRLYFNGEIQSAEKVREIARERFGRFAR DILFYLFLYDRFFSKKTELV

SKLGYIPNQAARTLITNKTLTIGLIQKSSAPEIRQNPFNSDVLNGINQACNVRGYSTRMTVSENSGDLY HEVKTMIQSKSVDGFILLYSLKDDPIEHLLNEFKVPYLIVGKSLNYENIIHIDNDNIDAAYQLTQYLYHLG HRHILFLQESGHYAVTEDRSVGFKQYCDDVKISNDCVVIKSMNDLRDFIKQYCIDASHMPSVIITSDV MLNMQLLNVLYEYQLRIPEDIQTATFNTSFLTENATPSQTSVNINPDVLGFTAGNTIIDVLRNETISFRE KLISTQIVERVSTTKI

MEARNMTPFTYFSLPMQKLFLRNQAAVRNKPYAKYFRSEMRVPLSAVRKIQQGPMALEDTLTPSIEDI NRLLEPDFVSEESGYALLPGPMAYVQSRKFFPGCTAQMFKWWFIWHPAESERYTLWFPYAHVSNPC VHHQRLRDESLSFEERLYGNTFCASEYVGDRLMHLHIDFQQPASLGLNTDLYREAKIDGSVSALMSLA DHPEVPVSLMVHLFKEVPDGMYLTSRYWVGAHPSMARFPGAEKAASLLKENGFGEAELETLAYEFAV HDMCEFNHLASFLPDLYREFGTPAA

MGAPPLGPTIIPPVRTLWLRDRALDLDRVRLLGVLNLTPDSFSDGGRYLDPERALERAREMVAEGADIL DLGAESTRPGAAPVPVEEEKRRLLPVLEAVLSLGVPVSVDTRKPEVAEEALKLGAHLLNDVTGLRDERM VALAARHGVAAVVMHMPVPDPATMMAHARYRDVVAEVKAFLEAQARRALSAGVPQVVLDPGFGF GKLLEHNLALLRRLDEIVALGHPVLVGLSRKRTIGELSGVEDPAQRVHGSVAAHLFAVMKGVRLLRVH DVRAHREALGVWEALYGGDRPSRA

MVLRDKMILLDENTKAIVQGITGRQGSFHTKKMLECGTKIVGGVTPGKGGQNVHGVPVFDTVKEAV KETDANASVIFVPAPFAKDAVFEAIDAGIELIVVITEHIPVHDTMEFVNYAEDVGVKIIGPNTPGIASPKV GKLGIIPMEVLKEGSVGMVSRSGTLTYEIAHQIKKAGFGVSTCVGIGGDPIVGLRYKEVLDLFEKDDETE AIVMIGEIGGGAEEEAAKFIEKMKKPVIGYIAGQSAPEGKRMGHAGAIVEKGKGTAESKMKALEEAGAY VAKNISDIPKLLAGILGK

PVYEHLLPVNGAWRQDVTNWLSEDVPSFDFGGYVVGSDLKEANLYCKQDGMLCGVPFAQEVFNQ CELQVEWLFKEGSFLEPSKNDSGKIVVAKITGPAKNILLAERTALNILSRSSGIATASHKIISLARSTGYKG

TIAGTRKTTPGLRRLEKYSMLVGGCDTHRYDLSSMVMLKDNHIWATGSITNAVKNARAVCGFAVKIE VECLSEDEATEAIEAGADVIMLDNFKGDGLKMCAQSLKNKWNGKKHFLLECSGGLNLDNLEEYLCDD IDIYSTSSIHQGTPVIDFSLKLAH

MDQECIENYAKVNGIYIYYKLCKAPEEKAKLMTMHGGPGMSHDYLLSLRDMTKEGITVLFYDQFGCG RSEEPDQSKFTIDYGVEEAEALRSKLFGNEKVFLMGSSYGGALALAYAVKYQDHLKGLIVSGGLSSVPL TVKEMNRLIDELPAKYRDAIKKYGSSGSYENPEYQEAVNYFYHQHLLRSEDWPPEVLKSLEYAERRNV YRIMNGPNEFTITGTIKDWDITDKISAIKIPTLITVGEYDEVTPNVARVIHEKIAGSELHVFRDCSHLTMW EDREGYNKLLSDFILKHL

MTTNLTNSNCVEEYKENGKTKIRIKPFNALIELYHHQTPTGSIKENLDKLENYVKDVVKAKGLAIPTSGA FSNTRGTWFEVMIAIQSWNYRVKRELNDYLIIKMPNVKTFDFRKIFDNETREKLHQLEKSLLTHKQQVR LITSNPDLLIIRQKDLIKSEYNLPINKLTHENIDVALTLFKDIEGKCKWDSLVAGVGLKTSLRPDRRLQLVH EGNILKSLFAHLKMRYWNPKAEFKYYGASSEPVSKADDDALQTAATHTIVNVNSTPERAVDDIFSLTSF EDIDKMLDOIIKK

TNLLPNIKEDKMLTLRREIKSPSKSALDSFTLIMQTYNRTDLLLRLLNHYQAVPSLHKVIVVWNNVGEK GPEELWNSLGPHPIPVIFKPQTANKMRNRLQVFPEVETNAVLMVDDDTLISAQDLVFAFSIWQQFPD QIIGFVPRKHVSTSSGIYSYGGFELQTPGPGNGDQYSMVLIGASFFNSKYLELFQKQPAAVHALIDETQ NCDDIAMNFLVTRHTGKPSGIFVKPINMVNLEKETNGYSGMWHRAEHFLQRSYCINKLVNIYDGMPL KYSNIMISQFGFPYANHKSKM

TAKNLHPLLGEKLNLARIENQHHFQSYLTAESPAYLSQHQVFNKVLFPATGYLEIAAAVGKNLLTTGE QVVVSDVTIVRGLVIPETDIKTVQTVISTLENNSYKLEIFSTSEGDNQQANQWTLHAEGKIFLDSTTNTK AKIDLEQYQRECSQVIDIQQHYQQFKSRGIDYGNSFQGIKQLWKGQGKALGKIALPEEIAGQATDYQ LHPALLDAALQILGHAIGNTETDDKAYLPVGIDKLKQYRQTITQVWAIVEIPENTLKGSIKLVDNQGSLL AEIEGLRVTATTADALLK

MLSHMVLTRQDIGRAASYYEDGADDYYAKDGDASEWQGKGAEELGLSGEVDSKRFRELLAGNIGEG HRIMRSATRQDSKERIGLDLTFSAPKSVSLQALVAGDAEIIKAHDRAVARTLEQAEARAQARQKIQGK TRIETTGNLVIGKFRHETSRERDPQLHTHAVILNMTKRSDGQWRALKNDEIVKATRYLGAVYNAELAH ELQKLGYQLRYGKDGNFDLAHIDRQQIEGFSKRTEQIAEWYAARGLDPNSVSLEQKQAAKVLSRAKK TSVDREALRAEWOATAKELGIDFS

MGSSSSGRENLYFQGQHLLKNPGILDKIIYAAKIKSSDIVLEIGCGTGNLTVKLLPLAKKVITIDIDSRMISE VKKRCLYEGYNNLEVYEGDAIKTVFPKFDVCTANIPYKISSPLIFKLISHRPLFKCAVLMFQKEFAERMLA NVGDSNYSRLTINVKLFCKVTKVCNVNRSSFNPPPKVDSVIVKLIPKESSFLTNFDEWDNLLRICFSRKR KTLHAIFKRNAVLNMLEHNYKNWCTLNKQVPVNFPFKKYCLDVLEHLDMCEKRSINLDENDFLKLLLE FNKKGIHFFNI

EHEHNYHPNAVAAGLRAGRTRSIGLVIPDLENTSYTRIANYLERQARQRGYQLLIACSEDQPDNEMR CIEHLLQRQVDAIIVSTSLPPEHPFYQRWANDPFPIVALDRALDREHFTSVVGADQDDAEMLAEELRK FPAETVLYLGALPELSVSFLREQGFRTAWKDDPREVHFLYANSYEREAAAQLFEKWLETHPMPQALFT TSFALLQGVMDVTLRRDGKLPSDLAIATFGDNELLDFLQCPVLAVAQRHRDVAERVLEIVLASLDEPR KPKPGLTRIKRNLYRRGVLSRS

ISDPVELLKRAEKKGVPSSGFMKLFSGSDSYKFEEAADLCVQAATIYRLRKELNLAGDSFLKAADYQKK AGNEDEAGNTYVEAYKCFKSGGNSVNAVDSLENAIQIFTHRGQFRRGANFKFELGEILENDLHDYAK AIDCYELAGEWYAQDQSVALSNKCFIKCADLKALDGQYIEASDIYSKLIKSSMGNRLSQWSLKDYFLKK GLCQLAATDAVAAARTLQEGQSEDPNFADSRESNFLKSLIDAVNEGDSEQLSEHCKEFDNFMRLDK WKITILNKIKESIQQQEDDLL

MASSMRSLFSDHGKYVESFRRFLNHSTEHQCMQEFMDKKLPGIIGRIGDTKSEIKILSIGGGAGEIDLQI LSKVQAQYPGVCINNEVVEPSAEQIAKYKELVAKISNLENVKFAWHKETSSEYQSRMLEKKELQKWDF IHMIQMLYYVKDIPATLKFFHSLLGTNAKMLIIVVSGSSGWDKLWKKYGSRFPQDDLCQYITSDDLTQ MLDNLGLKYECYDLLSTMDISDCFIDGNENGDLLWDFLTETCNFNATAPPDLRAELGKDLQEPEFSAK KEGKVLFNNTLSFIVIEA

>DM\_train880

HRPADVSALGVRGAEHPLLLAAVDVPGHGGAVFTGRLSTDEQPWLAEHVVGGRTLVPGSVLVDLAL AAGEDVGLPVLEELVLQRPLVLAGAGALLRMSVGAPDESGRRTIDVHAAEDVADLADAQWSQHAT GTLAQGVAAGPRDTEQWPPEDAVRIPLDDHYDGLAEQGYEYGPSFQALRAAWRKDDSVYAEVSIA ADEEGYAFHPVLLDAVAQTLSLGALGEPGGGKLPFAWNTVTLHASGATSVRVVATPAGADAMALRV TDPAGHLVATVDSLVVRSTGEKWEQPEPRG

TGTDFHVGIVGLGSMGMGAARSCLRAGLSTWGADLNPQACANLLAEGACGAAASAREFAGVVDA LVILVVNAAQVRQVLFGEDGVAHLMKPGSAVMVSSTISSADAQEIAAALTALNLNMLDAPVSGGAV KAAQGEMTVMASGSEAAFTRLKPVLDAVASNVYRISDTPGAGSTVKIIHQLLAGVHIAAAAEAMALA ARAGIPLDVMYDVVTHAAGNSWMFENRMQHVVDGDYTPRSAVDIFVKDLGLVADTAKALRFPLPL ASTALNMFTSASNAGYGKEDDSAVIKIFSG

>DM\_train882

MGSSSSGRENLYFQGHMKVIMTTKVDKASMNIMNKLIENFGFKETEYVFEGNPVYKRGDVLILTTND EMIYYDYLDREIENQLGFKPEIIAFASRHSSKQKLPALTTHVTGNWGKAMYGGKDESFAVAIPSAMKLS LLKMSELNDLGWTVCYEATHHGPTELEVPSFFIEIGSSEEEWINDRAGEIIAETIIYVLDNYEKGRSKFKV ALGIGGGHYAPKQTKRALEGDLAFGHILPKYAQPVSRDVMIKALNRFGEKVEAIYVDWKGSRGETRQL AKSLAQELGLEFIKDGS

>DM train884

MSKSWGKFIEEEEAEMASRRNLMIVDGTNLGFRFKHNNSKKPFASSYVSTIQSLAKSYSARTTIVLGDK GKSVFRLEHLPEYAGNRDEKYAQRTEEEKALDEQFFEYLKDAFELCKTTFPTFTIRGVEADDMAAYIVKL IGHLYDHVWLISTDGDWDTLLTDKVSRFSFTTRREYHLRDMYEHHNVDDVEQFISLKAIMGDLGDNI RGVEGIGAKRGYNIIREFGNVLDIIDQLPLPGKQKYIQNLNASEELLFRNLILVDLPTYCVDAIAAVGQD

## **VLDKFTKDILEIAEQ**

MDYLVKALAYDGKVRAYAARTTDMVNEGQRRHGTWPTASAALGRTMTASLMLGAMLKGDDKLTV KIEGGGPIGAIVADANAKGEVRAYVSNPQVHFDLNAAGKLDVRRAVGTNGTLSVVKDLGLREFFTGQ VEIVSGELGDDFTYYLVSSEQVPSSVGVGVLVNPDNTILAAGGFIIQLMPGTDDETITKIEQRLSQVEPIS KLIQKGLTPEEILEEVLGEKPEILETMPVRFHCPCSKERFETAILGLGKKEIQDMIEEDGQAEAVCHFCNE KYLFTKEELEGLRDQTTR

MACLSPSQLQKFQQDGFLVLEGFLSAEECVAMQQRIGEIVAEMDVPLHCRTEFSTQEEEQLRAQGST DYFLSSGDKIRFFFEKGVFDEKGNFLVPPEKSINKIGHALHAHDPVFKSITHSFKVQTLARSLGLQMPVV VQSMYIFKQPHFGGEVSPHQDASFLYTEPLGRVLGVWIAVEDATLENGCLWFIPGSHTSGVSRRMVR APVGSAPGTSFLGSEPARDNSLFVPTPVQRGALVLIHGEVVHKSKQNLSDRSRQAYTFHLMEASGTT WSPENWLOPTAELPFPOLYT

AEPESCGTVRFSDVGWTDITATTATATTILEALGYETDVKVLSVPVTYTSLKNKDIDVFLGNWMPTME ADIAPYREDKSVETVRENLAGAKYTLATNAKGAELGIKDFKDIAAHKDELDGKIYGIEPGNDGNRLIID MVEKGTFDLKGFEVVESSEQGMLAQVARAEKSGDPIVFLGWEPHPMNANFKLTYLSGGDDVFGPNY GGATVHTNVRAGYTTECPNVDKLLQNLSFSLQMENEIMGKILNDGEDPEKAAAAWLKDNPQSIEPW LSGVATKDGGDGLAAVKAALGL

QDLARIEQFLDALWLEKNLAENTLNAYRRDLSMMVEWLHHRGLTLATAQSDDLQALLAERLEGGYK ATSSARLLSAVRRLFQYLYREKFREDDPSAHLASPKLPQRLPKDLSEAQVERLLQAPLIDQPLELRDKA MLEVLYATGLRVSELVGLTMSDISLRQGVVRVIGKGNKERLVPLGEEAVYWLETYLEHGRPWLLNGVSI DVLFPSQRAQQMTRQTFWHRIKHYAVLAGIDSEKLSPHVLRHAFATHLLNHGADLRVVQMLLGHSD LSTTQIYTHVATERLRQLHQ

MRSHILGKIELDQTRLAPDLAYLAAVPTVEEEYDEFSNGFWKHVPLWNASGDSEDRLYRDLKDAAAQ PTAHVEHVPYLKEIVTTVFDGTHLQMARSRNLKNAIVIPHRDFVELDREVDRYFRTFMVLEDSPLAFHS NEDTVIHMRPGEIWFLDAATVHSAVNFSEISRQSLCVDFAFDGPFDEKEIFADATLYAPGSTPDLPERR PFTAEHRRRILSLGQVIERENFRDILFLLSKVHYKYDVHPSETYDWLIEISKQAGDEKMVVKAEQIRDFA VEARALSERFSLTSW

>DM train895

MDRKTRLSEPPTLALRLKPYKTAIQQLRSVIRALKENTTVTFLPTPSLILQTVRSHCVSKITFNSSCLYITDK SFQPKTINNSTPLLGNFMYLTSSKDLTKFYVQDISDLSAKISMCAPDFNMEFSSACVHGQDIVRESENS AVHVDLDFGVVADLLKWIGPHTRVKRNVKKAPCPTGTVQILVHAGPPAIKFILTNGSELEFTSNNRVSF HGVKNMRINVQLKNFYQTLLNCAVTKLPCTLRIVTEHDTLLYVASRNGLFAVENFLTEEPFQRGDPFD KNYVGNSGKSR

>DM train896

GMEQATRTIYSEYAAYPETQGIIAVEKRQPRDSLTDQFDVLLLVITRDPSVEWTVKHYRLNTLRVSLHL VHEQVLSRWLILNANRRAVHWVSEGTIIFERNDYLTDLKKQLRNFPETERCLQMSLSFAKLLRRFQDG RNLFSRGNYYDAYTHVHHALHHLARLSVLEKGAHPEVVVWEQARLDDPDVYKLYEQLLLSEETLEQRI HLALIGLEHLLQSKVLSGGKYLFEVMRERDRPWTMHELMEESRLTELKVDLGSLVDFFIRKGLIRISYQR TKGLGVELVTYEPVV

>DM train897

AYSLNNWNKPIKNSVTTKQWMSALPDTTNLAALSIPGTHDTMSYNGDITWTLTKPLAQTQTMSLYQ QLEAGIRYIDIRAKDNLNIYHGPIFLNASLSGVLETITQFLKKNPKETIIMRLKDEQNSNDSFDYRIQPLINI YKDYFYTTPRTDTSNKIPTLKDVRGKILLLSENHTKKPLVINSRKFGMQFGAPNQVIQDDYNGPSVKTK FKEIVQTAYQASKADNKLFLNHISATSLTFTPRQYAAALNNKVEQFVLNLTSEKVRGLGILIMDFPEKQT IKNIIKNNKFN

>DM train898

MANGYTYEDYQDTAKWLLSHTEQRPQVAVICGSGLGGLVNKLTQAQTFDYSEIPNFPESTVPGHAG RLVFGILNGRACVMMQGRFHMYEGYPFWKVTFPVRVFRLLGVETLVVTNAAGGLNPNFEVGDIMLI

RDHINLPGFSGENPLRGPNEERFGVRFPAMSDAYDRDMRQKAHSTWKQMGEQRELQEGTYVMLG GPNFETVAECRLLRNLGADAVGMSTVPEVIVARHCGLRVFGFSLITNKVIMDTESQGKANHEEVLEAG KQAAQKLEQFVSLLMASIPVSGHTG

>DM\_train899

SFLKHVQDCNTHDLSNFVRFVIEGRRVGWVRKALAQRLKAHGRVFDVTRDAVLLSASLRTPQSRTRA VADVVDRLADEGVVPAPRGELYRVNQSWGEPTLMLLDRAVVPTFGVRAYGVHLNGYVGAGADLHL WIGRRSPDKSVAPGKLDNMVAGGQPADLSLRQNLIKECAEEADLPEALARQAIPVGAITYCMESPAG IKPDTLFLYDLALPEDFRPHNTDGEMADFMLWPAAKVVEAVRTTEAFKFNVNLTVIDFAIRHGLIDPD NEPDYQEILAGLRGRPRERAAS

>DM\_train900

NAMPIEIITDSGADLPQSYIREHRIAFLPLVVHWNGQDYKDGITIEPKQVYDAMRQGHTVKTAQPSPL AMKELFLPYAKENRPCLYIAFSSKLSGTYQTAMAVRSELLDEYPEFRLTIIDSKCASLGQGLAVMKAVEL AKQNTPYNLLCETIESYCRHMEHIFTVDNLDYLARGGRISKTAAAFGGLLNIKPLLHVEDGALIPLEKWR GRKKVLKRMVELMGERGDDLQKQTIGISHADDEETALELKQMIEETHGCTRFFLSDIGSAIGAHAGPG TIALFFLNKYIEI

>DM train903

MPKERVDVLAYKQGLFETREQAKRGVMAGLVVNVINGERYDKPGEKIDDGTELKLKGEKLRYVSRGG LKLEKALAVFNLSVEDMITIDIGASTGGFTDVMLQNGAKLVYAVDVGTNQLVWKLRQDDRVRSMEQ YNFRYAEPVDFTEGLPSFASIDVSFISLNLILPALAKILVDGGQVVALVKPQFEAGREQIGKNGIVRESSIH EKVLETVTAFAVDYGFSVKGLDFSPIQGGHGNIEFLAHLEKTDSPQNDVPTSIKEVVAQAHKEFKKNEE ERSFGVNPKDCPRK

>DM\_train905

MSVQLTPHFGNVQAHYDLSDDFFRLFLDPTQTYSCAYFERDDMTLQEAQIAKIDLALGKLNLEPGMT LLDIGCGWGATMRRAIEKYDVNVVGLTLSENQAGHVQKMFDQMDTPRSRRVLLEGWEKFDEPVDR IVSIGAFEHFGHQRYHHFFEVTHRTLPADGKMLLHTIVRPTFKEGREKGLTLTHELVHFTKFILAEIFPGG WLPSIPTVHEYAEKVGFRVTAVQSLQLHYARTLDMWATALEANKDQAIAIQSQTVYDRYMKYLTGC AKLFROGYTDVDOFTLEK

>DM train906

MSKQLLALNIDGALLRSNGKIHQATKDAIEYVKKKGIYVTLVTNRHFRSAQKIAKSLKLDAKLITHSGAYI AEKIDAPFFEKRISDDHTFNIVQVLESYQCNIRLLHEKYSIGNKKKVNSNLLGKALIHPSDPIFYPVQFVE SLSDLLMDEPVSAPVIEVYTEHDIQHDITETITKAFPAVDVIRVNDEKLNIVPKGVSKEAGLALVASELGL SMDDVVAIGHQYDDLPMIELAGLGVAMGNAVPEIKRKADWVTRSNDEQGVAYMMKEYFRMQQR KGFLDKFHMKR

>DM train907

GSCSSKPANTAKGEKGSDKTGKDLELKLSFQEGIAPGESLNEKLDFMEKLGVVGFEPGGGGLAGRVNE IKQALNGRNIKVSAICAGFKGFILSTDPAIRKECMDTMKEIIAAAGELGSTGVIIVPAFNGQVPALPHTM ETRDFLCEQFNEMGTFAAQHGTSVIFEPLNRKECFYLRQVADAASLCRDINNPGVRCMGDFWHMT WEETSDMGAFISGGEYLQHVHVASRKRRSMPGEDGDADNYINGFKGLKMIGYNNYVSFECGCQGD RNVVVPAAVKLLREQWEQA

>DM\_train908

MADFEDRVSDEEKVRIAAKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNMDQFTPVKI EGYDDQVLITEHGDLGNGRFLDPRNKISFKFDHLRKEASDPQPEDTESALKQWRDACDSALRAYVKD HYPNGFCTVYGKSIDGQQTIIACIESHQFQPKNFWNGRWRSEWKFTITPPTAQVAAVLKIQVHYYED GNVQLVSHKDIQDSVQVSSDVQTAKEFIKIIENAENEYQTAISENYQTMSDTTFKALRRQLPVTRTKID WNKILSYKIGKEMQNA

>DM\_train909

GMTDAPADAPLDADARRAVKPVICYPNDSLPRPDLALYRAARASARKTGEVLVPPREGRCFEVKAGQ FFRISSVEGPQVGDLNLHNLHDLTERFFSGKTRALHGTHVTTGERLWSNLPYLRPMATIIEDTLGWYGI DQYGGSVHDVIGTRCDPYTGNLLAGGHYHHCCHSNLTRALADHTGLPLHEAEMLVHDVLNVFMCT GFTRDTGQYFMKASPVRPGDYLEFFAEIDLLGNLSACPGGDCSSEHSSDTASCHPLLVEIFAPAEGML GDWPSPSVNGYDRSHGR

>DM train910

GTHMKSQIKRQRMIYHCKFGEFGVMEGQFTEPSGVAVNAQNDIIVADTNNHRIQIFDKEGRFKFQFG ECGKRDSQLLYPNRVAVVRNSGDIIVTERSPTHQIQIYNQYGQFVRKFGATILQHPRGVTVDNKGRIIV VECKVMRVIIFDQNGNVLHKFGCSKHLEFPNGVVVNDKQEIFISDNRAHCVKVFNYEGQYLRQIGGE GITNYPIGVGINSNGEILIADNHNNFNLTIFTQDGQLISALESKVKHAQCFDVALMDDGSVVLASKDY RLYIYRYVQLAPVGM

### >DM train912

MGSDKIHHHHHHTHSVETPYGSVTFTVYGTPKPKRPAIFTYHDVGLNYKSCFQPLFRFGDMQEIIQNF VRVHVDAPGMEEGAPVFPLGYQYPSLDQLADMIPCILQYLNFSTIIGVGVGAGAYILSRYALNHPDTV EGLVLINIDPNAKGWMDWAAHKLTGLTSSIPDMILGHLFSQEELSGNSELIQKYRGIIQHAPNLENIELY WNSYNNRRDLNFERGGETTLKCPVMLVVGDQAPHEDAVVECNSKLDPTQTSFLKMADSGGQPQL TQPGKLTEAFKYFLQG

#### >DM train913

MGYAHPEVLVSTDWVQEHLEDPKVRVLEVDEDILLYDTGHIPGAQKIDWQRDFWDPVVRDFISEEEF AKLMERLGISNDTTVVLYGDKNNWWAAYAFWFFKYNGHKDVRLMNGGRQKWVEEGRPLTTEVPS YPPGRYEVPYRDESIRAYRDDVLEHIIKVKEGKGALVDVRSPQEYRGELTHMPDYPQEGALRAGHIPG AKNIPWAKAVNPDGTFKSAEELRALYEPLGITKDKDIVVYCRIAERSSHSWFVLKYLLGYPHVKNYDGS WTEWGNLVGVPIAKGEE

# >DM train914

MRPMTHVPVLYQEALDLLAVRPGGVYVDATLGGAGHARGILERGGRVIGLDQDPEAVARAKGLHLP GLTVVQGNFRHLKRHLAALGVERVDGILADLGVSSFHLDDPSRGFSYQKEGPLDMRMGLEGPTAKEV VNRLPLEALARLLRELGEEPQAYRIARAIVAAREKAPIETTTQLAEIVRKAVGFRRAGHPARKTFQALRIY VNDELNALKEFLEQAAEVLAPGGRLVVIAFHSLEDRVVKRFLRESGLKVLTKKPLVPSEKEAAQNPRAR SAKLRAAEKEAP

#### >DM train915

MFKDFFNRTKKKKYLTVQDSKNNDVPAGIMTKCPKCKKIMYTKELAENLNVCFNCDHHIALTAYKRIE AISDEGSFTEFDKGMTSANPLDFPSYLEKIEKDQQKTGLKEAVVTGTAQLDGMKFGVAVMDSRFRMG SMGSVIGEKICRIIDYCTENRLPFILFSASGGARMQEGIISLMQMGKTSVSLKRHSDAGLLYISYLTHPTT GGVSASFASVGDINLSEPKALIGFAGRRVIEQTINEKLPDDFQTAEFLLEHGQLDKVVHRNDMRQTLS

## **EILKIHQEVTK**

### >DM train916

MGSSSSGLVPRGSHMASAPALTKSQTDRLEVLLNPKDEISLNSGKPFRELESELLSRRKKDLQQIYAEER ENYLGKLEREITRFFVDRGFLEIKSPILIPLEYIERMGIDNDTELSKQIFRVDKNFCLRPMLAPNLYNYLRKL DRALPDPIKIFEIGPCYRKESDGKEHLEEFTMLNFCQMGSGCTRENLESIITDFLNHLGIDFKIVGDSCM VYGDTLDVMHGDLELSSAVVGPIPLDREWGIDKPWIGAGFGLERLLKVKHDFKNIKRAARSESYYNGI STNL

## >DM train919

MNYNPEEQFRCTIIRGKAKNMLDNLLPAYANIIDDICPCDKASFVKDFNNRLIEILGEETTKKTLDNHRT EIAGKLFGMFYEDDEVIFPSGRTNKYIEDSDQPAFFKDICFKFQFPNGMDKLDKVIEKVGAKIQIRQFPYI LQVLLTADNNNIQLSKDDIAYYVLNSLQVLQGKIKPIEVIEKIIEDRSNDITKKVRHPGKETSYSMQHIRE QLNYLELANLIRIDGNLVKLNYREAENINYIAQFWGNKPEFNAYKYDFTSEDDKKSFFKDWQQYYSN VNSHKS

## >DM\_train920

## >DM\_train921

MRGSHHHHHHGSMDAQSAAKCLTAVRRHSPLVHSITNNVVTNFTANGLLALGASPVMAYAKEEV ADMAKIAGALVLNIGTLSKESVEAMIIAGKSANEHGVPVILDPVGAGATPFRTESARDIIREVRLAAIRG NAAEIAHTVGVTDWLIKGVDAGEGGGDIIRLAQQAAQKLNTVIAITGEVDVIADTSHVYTLHNGHKLL TKVTGAGSLLTSVVGAFCAVEENPLFAAIAAISSYGVAAQLAAQQTADKGPGSFQIELLNKLSTVTEQD VOEWATIERVTVS

## >DM\_train922

MAGVDPFTGNSAYRSAASKTMNIYFPKKEAVTFDQANPTQILGKLKELNGTAPEEKKLTDDLILLEKILS LICNSSSEKPTVQQLQILWKAINCPEDIVFPALDILRLSIKHPSVNENFCNEKEGAQFSSHLINLLNPKGK PANQLLALRTFCNCFVGQAGQKLMMSQRESLMSHAIELKSGSNKNIHIALATLALNYSVCFHKDHNI EGKAQCLSLISTILEVVQDLEATFRLLVALGTLISDDSNAVQLAKSLGVDSQIKKYSSVSEPAKVSECCRF ILNLL

## >DM train923

MTGSLNRHSLLNGVKKMRIILCDTNEVVTNLWQESIPHAYIQNDKYLCIHHGHLQSLMDSMRKGDAI HHGHSYAIVSPGNSYGYLGGGFDKALYNYFGGKPFETWFRNQLGGRYHTVGSATVVDLQRCLEEKTI ECRDGIRYIIHVPTVVAPSAPIFNPQNPLKTGFEPVFNAMWNALMHSPKDIDGLIIPGLCTGYAGVPPII SCKSMAFALRLYMAGDHISKELKNVLIMYYLQYPFEPFFPESCKIECQKLGIDIEMLKSFNVEKDAIELLIP RRILTLDL

## >DM train924

TAQIKGLTQAQRNANDGISLAQTAEGALGEISNNLQRIRELAVQASNGTNTQTDRDALQAEVTQLQ SEIQRVAEQTSFNGQKLLDGSFNGVQFQIGANAGETIGVSKIMNAQTASLGGSLTRTTSTIDATDLTK YDTAMAAGDLTINGVDVGKIDAASTAQERAAQLTEAINRVSSQTNVGASYDKTTGQVTLTSNAAIAV AGAANDATVAGWANNATTGTATTTTGINSLTVSSFTNAQQTITQIDNALKDINTARADLGAVQNRF TSTVANLOSMTENLSSA

# >DM\_train926

AVDRDTAKNSSPIAGNIEYTISTPGSNYAVGDKITVKYVSDDIETEGKITEVDADGKIKKINIPTAKIIAKA KEVGEYPTLGSNWTAEISSSSSGLAAVITLGKIITDSGILLAEIENAEAAMTAVDFQANLKKYGIPGVVAL YPGELGDKIEIEIVSKADYAKGASALLPIYPGGGTRASTAKAVFGYGPQTDSQYAIIVRRNDAIVQSVVL STKRGGKDIYDSNIYIDDFFAKGGSEYIFATAQNWPEGFSGILTLSGGLSSNAEVTAGDLMEAWDFFA DR

### >DM\_train927

GTEDTVIKVSVLRGPSVIAFADWLENPPIIDNKKVQVKVVDSPDLAQALLIKQETDIAVLPMINAANLY NKGIKIKLAGCPIWGTLYLVEKTPLKEPALYVFGNGTTPDILTRYYLGRQRLDYPLNYAFNTAGEITQGIL AGKVNRAVLGEPFLSIALRKDSSLRITADLNHLTDNDTLGFAQTAVVYTPTMEKYRIAFEDALRASCQK AVRYPKETIHSLEEHGIFAQGALTPKSIERCKIYYLSAIEAKDAVMGFLRLIEQYEPKAVGGRLPDAGFIPE KO

>DM train928

MTGTLLSFGHGYTARVLSRALAPQGWRIIGTSRNPDQMEAIRASGAEPLLWPGEEPSLDGVTHLLIST APDSGGDPVLAALGDQIAARAAQFRWVGYLSTTAVYGDHDGAWVDETTPLTPTAARGRWRVMAE QQWQAVPNLPLHVFRLAGIYGPGRGPFSKLGKGGIRRIIKPGQVFSRIHVEDIAQVLAASMARPDPGA VYNVCDDEPVPPQDVIAYAAELQGLPLPPAVDFDKADLTPMARSFYSENKRVRNDRIKEELGVRLKYP NYRVGLEALQADAET

>DM train929

TITDDQIEVTDATELVQSSSTGKICNNPHRILDGIDCTLIDALLGDPHCDVFQDETWDLFVERSKAFSN CYPYDVPDYASLRSLVASSGTLEFITEGFTWTGVTQNGGSNACKRGPGSGFFSRLNWLTKSGSTYPVL DVTMPNNDNFDKLYIWGIHHPSTNQEQTSLYVQASGRVTVSTRRSQQTIIPNIGSRPWVRGLSSRISI YWTIVKPGDVLVINSNGNLIAPRGYFKMRTGKSSIMRSDAPIDTCISECITPDGSIPNDKPFQNVNKITY GACPKYV

>DM train930

MSGADRSPNAGAAPDSAPGQAAVASAYQRFEPRAYLRNNYAPPRGDLCNPNGVGPWKLRCLAQT FATGEVSGRTLIDIGSGPTVYQLLSACSHFEDITMTDFLEVNRQELGRWLQEEPGAFNWSMYSQHAC LIEGKGECWQDKERQLRARVKRVLPIDVHQPQPLGAGSPAPLPADALVSAFCLEAVSPDLASFQRAL DHITTLLRPGGHLLLIGALEESWYLAGEARLTVVPVSEEEVREALVRSGYKVRDLRTYIMPAHLQTGVD DVKGVFFAWAQKVGL

>DM train931

GAKESEQKVTIDSAKHEKHTKDKEENNSANTVFFDKINDLLVASVKEFEGTVGISYLDLETGEQRSVNG QHEFYTASTIKVPLTMLVADTVASGQKKWTDLIPYNAEEDYEEGTGIIAYNIQPEYPLKTLQEYAITYSD NIAKNMLYDTLGGDAKAKREMYQRYLHKTPSIEEPQFSSEDALVILQKLYTEKATKPDYQAIYDSMKQ SVFHERMETPTTQGKVAHKIGSYDEFIHDMGILETPHPFALAIFTKGPDNAKSAAFIASVTDKLWQLQV SEYPNO

>DM\_train933

GSAMDVRQSIHSAHAKTLDTQGLRNEFLVEKVFVADEYTMVYSHIDRIIVGGIMPITKTVSVGGEVGK QLGVSYFLERRELGVINIGGAGTITVDGQCYEIGHRDALYVGKGAKEVVFASIDTGTPAKFYYNCAPAH TTYPTKKVTPDEVSPVTLGDNLTSNRRTINKYFVPDVLETCQLSMGLTELAPGNLWNTMPCHTHERR MEVYFYFNMDDDACVFHMMGQPQETRHIVMHNEQAVISPSWSIHSGVGTKAYTFIWGMVGENQ VFDDMDHVAVKEICA

>DM\_train934

MTVRKNQATLTADEKRRFVAAVLELKRSGRYDEFVRTHNEFIMSDTDSGERTGHRSPSFLPWHRRFLL DFEQALQSVDSSVTLPYWDWSADRTVRASLWAPDFLGGTGRSTDGRVMDGPFAASTGNWPINVR VDSRTYLRRSLGGSVAELPTRAEVESVLAISAYDLPPYNSASEGFRNHLEGWRGVNLHNRVHVWVGG QMATGVSPNDPVFWLHHAYVDKLWAEWQRRHPDSAYVPTGGTPDVVDLNETMKPWNTVRPADL LDHTAYYTFDALEHHHHHH

>DM train936

MSNQLERGPVRTPHADVLLASVGERGVLCDFYDEGAADTYRDLIQDADGTSEAREFATRTGPVSGPV LELAAGMGRLTFPFLDLGWEVTALELSTSVLAAFRKRLAEAPADVRDRCTLVQGDMSAFALDKRFGT VVISSGSINELDEADRRGLYASVREHLEPGGKFLLSLAMSEAAESEPLERKQELPGRSGRRYVLHVRHLP AEEIQEITIHPADETTDPFVVCTHRRRLLAPDQVVRELVRSGFDVIAQTPFASGGAGRKDMVLVEAVM PGATADAR

>DM train937

MTTTESPTAAGSGSAATDKFKAERATADTSPERLAAIAKDALGALNDVILKHGVTYPEYRVFKQWLID VGEGGEWPLFLDVFIEHSVEEVLARSRKGTMGSIEGPYYIENSPELPSKCTLPMREEDEKITPLVFSGQVT DLDGNGLAGAKVELWHADNDGYYSQFAPHLPEWNLRGTIIADEEGRYEITTIQPAPYQIPTDGPTGQ FIEAQNGHPWRPAHLHLIVSAPGKESVTTQLYFKGGEWIDSDVASATKPELILDPKTGDDGKNYVTYN FVLDPA

>DM train938

MEDDPVWRFDDRDVILYNIALGATTKQLKYVYENDSDFQVIPTFGHLITFNSGKSQNSFAKLLRNFNP

MLLLHGEHYLKVHSWPPPTEGEIKTTFEPIATTPKGTNVVIVHGSKSVDNKSGELIYSNEATYFIRNCQA DNKVYADRPAFATNQFLAPKRAPDYQVDVPVSEDLAALYRLSGDRNPLHIDPNFAKGAKFPKPILHG MCTYGLSAKALIDKFGMFNEIKARFTGIVFPGETLRVLAWKESDDTIVFQTHVVDRGTIAINNAAIKLVG DKAKI

### >DM train939

GPMNPGPLELQLGDIFIAVKTTWAFHRSRLDLLLDTWVSRIRQQTFIFTDSPDERLQERLGPHLVVTQC SAEHSHPALSCKMAAEFDAFLVSGLRWFCHVDDDNYVNPKALLQLLKTFPQDRDVYVGKPSLNRPI HASELQSKQRTKLVRFWFATGGAGFCINRQLALKMVPWASGSHFVDTSALIRLPDDCTVGYIIECKLG GRLQPSPLFHSHLETLQLLGAAQLPEQVTLSYGVFEGKLNVIKLPGPFSHEEDPSRFRSLHCLLYPDTP WCPLLAAP

## >DM\_train940

MDIKINDITLGNNSPFVLFGGINVLESLDSTLQTCAHYVEVTRKLGIPYIFKASFDKANRSSIHSYRGVGL EEGLKIFEKVKAEFGIPVITDVHEPHQCQPVAEVCDVIQLPAFLARQTDLVVAMAKTGNVVNIKKPQFL SPSQMKNIVEKFHEAGNGKLILCERGSSFGYDNLVVDMLGFGVMKQTCGNLPVIFDVTHSLQTRDA GSAASGGRRAQALDLALAGMATRLAGLFLESHPDPKLAKCDGPSALPLHLLEDFLIRIKALDDLIKSQPI LTIE

### >DM\_train942

MATHKPINILEAFAAAPPPLDYVLPNMVAGTVGALVSPGGAGKSMLALQLAAQIAGGPDLLEVGELP TGPVIYLPAEDPPTAIHHRLHALGAHLSAEERQAVADGLLIQPLIGSLPNIMAPEWFDGLKRAAEGRRL MVLDTLRRFHIEEENASGPMAQVIGRMEAIAADTGCSIVFLHHASKGAAMMGAGDQQQASRGSSV LVDNIRWQSYLSSMTSAEAEEWGVDDDQRRFFVRFGVSKANYGAPFADRWFRRHDGGVLKPAVLE RQRKSKGVPRGEA

## >DM\_train944

MKKNRAFLKWAGGKYPLLDDIKRHLPKGECLVEPFVGAGSVFLNTDFSRYILADINSDLISLYNIVKMR TDEYVQAARELFVPETNCAEVYYQFREEFNKSQDPFRRAVLFLYLNRYGYNGLCRYNLRGEFNVPFGR YKKPYFPEAELYHFAEKAQNAFFYCESYADSMARADDSSVVYCDPPYAPLSATANFTAYHTNSFTLEQ QAHLAEIAEGLVERHIPVLISNHDTMLTREWYQRAKLHVVKVRRSISSNGGTRKKVDELLALYKPGVVS PAKK

### >DM train945

MSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRD GDSYRSPWSNKYDPPLEDGAMPSARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWDLDHGFAGVILI KKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKTGSGTMNLGGSLTRQMEK DETVSDSSPHIANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSIDAIPDNQKYKQLQRELSQVLTQR OIYIOPDN

### >DM\_train946

GMGGAALPDNGWPADRIDTESAHSARIYDYIIGGKDYYPADKEAGDAMSREWPALPVHMRANRD WMNRAVAHLAKEAGIRQFLDIGTGIPTSPNLHEIAQSVAPESRVVYVDNDPIVLTLSQGLLASTPEGRT AYVEADMLDPASILDAPELRDTLDLTRPVALTVIAIVHFVLDEDDAVGIVRRLLEPLPSGSYLAMSIGTA EFAPQEVGRVAREYAARNMPMRLRTHAEAEEFFEGLELVEPGIVQVHKWHPDAATADGIRDEDIAM YGAVARKP

## >DM\_train948

GMQVEQRTLNTAAHPFQITAYWLDQISDFETAVDYPIMIICPGGGFTYHSGREEAPIATRMMAAGM HTVVLNYQLIVGDQSVYPWALQQLGATIDWITTQASAHHVDCQRIILAGFSAGGHVVATYNGVATQ PELRTRYHLDHYQGQHAAIILGYPVIDLTAGFPTTSAARNQITTDARLWAAQRLVTPASKPAFVWQT ATDESVPPINSLKYVQAMLQHQVATAYHLFGSGIHGLALANHVTQKPGKDKYLNDQAAIWPQLALR WLOEOGLLAGNY

## >DM\_train949

>DM train951

### >DM train952

MSWVQLAGHTGSFKAAGTSGLILKRCSEPERYCLARLMADALRGCVPAFHGVVERDGESYLQLQDLL DGFDGPCVLDCKMGVRTYLEEELTKARERPKLRKDMYKKMLAVDPEAPTEEEHAQRAVTKPRYMQW REGISSSTTLGFRIEGIKKADGSCSTDFKTTRSREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDTLEVSEFF RRHEVIGSSLLFVHDHCHRAGVWLIDFGKTTPLPDGQILDHRRPWEEGNREDGYLLGLDNLIGILASLA FR

## >DM\_train953

SLRCMQCKTNGDCRVEECALGQDLCRTTIVRLWEEGEELELVEKSCTHSEKTNRTLSYRTGLKITSLTEV VCGLDLCNQGNSGRAVTYSRSRYLECISCGSSDMSCERGRHQSLQCRSPEEQCLDVVTHWIQEGEE GRPKDDRHLRGCGYLPGCPGSNGFHNNDTFHFLKCCNTTKCNEGPILELENLPQNGRQCYSCKGNS THGCSSEETFLIDCRGPMNQCLVATGTHEPKNQSYMVRGCATASMCQHAHLGDAFSMNHIDVSC CTKSGCNHPD

### >DM\_train954

MTDTTNSIKHVISPLARQTLQDRDLTRPVAGKRPIRLLPWLQVVKIGGRVMDRGADAILPLVEELRKLL PEHRLLILTGAGVRARHVFSVGLDLGLPVGSLAPLAASEAGQNGHILAAMLASEGVSYVEHPTVADQL AIHLSATRAVVGSAFPPYHHHEFPGSRIPPHRADTGAFLLADAFGAAGLTIVENVDGIYTADPNGPDR GQARFLPETSATDLAKSEGPLPVDRALLDVMATARHIERVQVVNGLVPGRLTAALRGEHVGTLIRTGV RPA

# >DM\_train955

MAHHHHHHGICSSAPTLGEIWKRKLNQLDAKEFMAYRRRFVVEVDRNEAREALAKGKTNTGHAVSR GTAKLAWIDERGGVELKGTVVDLGCGRGSWSYYAASQPNVREVKAYTLGTSGHEKPRLVETFGWNLI TFKSKVDVTKMEPFQADTVLCDIGESNPTAAVEASRTLTVLNVISRWLEYNQGCGFCVKVLNPYSCD VLEALMKMQARFGGGLIRVPLSRNSTHEMYFVSGIKNNIMGNVTAVSRQLLKRMEEQGGERVVPDY KFSTGTRSNL

### >DM train956

MTDTYLHETLVFDNKLSYIDNQRDTDGPAILLLPGWCHDHRVYKYLIQELDADFRVIVPNWRGHGLS PSEVPDFGYQEQVKDALEILDQLGVETFLPVSHSHGGWVLVELLEQAGPERAPRGIIMDWLMWAPK PDFAKSLTLLKDPERWREGTHGLFDVWLDGHDEKRVRHHLLEEMADYGYDCWGRSGRVIEDAYGR NGSPMQMMANLTKTRPIRHIFSQPTEPEYEKINSDFAEQHPWFSYAKLGGPTHFPAIDVPDRAAVHI REFATAIRQGQ

### >DM\_train957

MSYYHHHHHHLESTSLYKAGLTRKFFVGGNWKMNGDYASVDGIVTFLNASADNSSVDVVVAPPAP YLAYAKSKLKAGVLVAAQNCYKVPKGAFTGEISPAMIKDLGLEWVILGHSERRHVFGESDALIAEKTVH ALEAGIKVVFCIGEKLEEREAGHTKDVNFRQLQAIVDKGVSWENIVIAYEPVWAIGTGKTASGEQAQE VHEWIRAFLKEKVSPAVADATRIIYGGSVTADNAAELGKKPDIDGFLVGGASLKPDFVKIINARSTALSC TCW

## >DM\_train958

MERLAPAKVNLGLSVRFRREDGYHELHTLFAPFSLADRLVVEPVSSGLHFQGPYGRENLAYRAASLYLE AAGQPGGVRILLEKRIPEGAGLGGGSSDAAQVLLALQALYPAEVDLFALARTLGADVPFFLLGRGAEA RGVGERLKPLALPPVPAVVFFPGLRVPTPLVYRAVRPEDFGPDLPVEAILEALARGEEPPYWNSLEGPA FRLFPELKEVRGRMRALGLRGVLMSGSGSAFFGLAEGPDHARRAAEALRAWGRAWAGTLGGGDAG SGPA

## >DM\_train959

GSQSSERVVIGSKPFNEQYILANMIAILLEENGYKAEVKEGLGGTLVNYEALKRNDIQLYVEYTGTAYN VILRKQPPELWDQQYIFDEVKKGLLEADGVVVAAKLGFRDDYALAVRADWAEENGVEKISDLAEFAD QLVFGSDPEFASRPDGLPQIKKVYGFEFKEVKQMEPTLMYEAIKNKQVDVIPAYTTDSRVDLFNLKILE DDKGALPPYDAIIIVNGNTAKDEKLISVLKLLEDRIDTDTMRALNYQYDVEKKDAREIAMSFLKEQGLV

## >DM\_train960

### >DM\_train961

MGSSSSGLVPRGSMANYTEKFAAWSVICLTDHTFLDENGTEDDIRELCNESVKTCPFAAAVCVYPKFV KFINEKIKQEINPFKPKIACVINFPYGTDSMEKVLNDTEKALDDGADEIDLVINYKKIIENTDEGLKEATKL TQSVKKLLTNKILKVIIEVGELKTEDLIIKTTLAVLNGNADFIKTSTGKVQINATPSSVEYIIKAIKEYIKNNPE KNNKIGLKVSGGISDLNTASHYILLARRFLSSLACHPDNFRIGSSSLVIKLRKVISQCPL

## >DM\_train962

GMEKRLDYITDLMALGPTANARTIQRRQTAHRLAIAEAWQVKPGEKILEIGCGQGDLSAVLADQVGS SGHVTGIDIASPDYGAPLTLGQAWNHLLAGPLGDRLTVHFNTNLSDDLGPIADQHFDRVVLAHSLW YFASANALALLFKNMAAVCDHVDVAEWSMQPTALDQIGHLQAAMIQGLLYAIAPSDVANIRTLITP DTLAQIAHDNTWTYTAGTIVEDPTLDDAHWEIATTNALLTELKLSTDLRDRVKPLLEAMSHNGTASLA TFTGRITF

### >DM\_train964

QTIKDFLAVAMKKWTAPFEPFQLIDNIYYVGTDGIAVYVIKTSQGLILMDTAMPQSTGMIKDNIAKLGF KVADIKLILNTHAHLDHTGGFAEIKKETGAQLVAGERDKPLLEGGYYPGDEKNEDLAFPAVKVDRAVK EGDRVTLGDTTLTAHATPGHSPGCTSWEMTVKDGKEDREVLFFCSGTVALNRLVGQPTYAGIVDDYR ATFAKAKAMKIDVLLGPHPEVYGMQAKRAEMKDGAPNPFIKPGELVTYATSLSEDFDKQLAKQTAAL EKK

## >DM\_train966

GQGKLISVKTDVLDLTINTRGGDVEQALLPAYPKELNSTQPFQLLETSPQFIYQAQSGLTGRDGPDNP ANGPRPLYNVEKDAYVLAEGQNELQVPMTYTDAAGNTFTKTFVLKRGDYAVNVNYNVQNAGEKPL EISSFGQLKQSITLPPHLDTGSSNFALHTFRGAAYSTPDEKYEKYKFDTIADNENLNISSKGGWVAMLQ QYFATAWIPHNDGTNNFYTANLGNGIAAIGYKSQPVLVQPGQTGAMNSTLWVGPEIQDKMAAVA PHLDLTVD

### >DM train967

### >DM train968

MHDANIRVAIAGAGGRMGRQLIQAALALEGVQLGAALEREGSSLLGSDAGELAGAGKTGVTVQSSL DAVKDDFDVFIDFTRPEGTLNHLAFCRQHGKGMVIGTTGFDEAGKQAIRDAAADIAIVFAANFSVGV NVMLKLLEKAAKVMGDYTDIEIIEAHHRHKVDAPSGTALAMGEAIAHALDKDLKDCAVYSREGHTGE RVPGTIGFATVRAGDIVGEHTAMFADIGERLEITHKASSRMTFANGAVRSALWLSGKESGLFDMRDVL DLNNL

## >DM\_train969

MPHDPGATRLLAISPHLDDAVLSFGAGLAQAAQDGANVLVYTVFAGAAQPPYSPAAQRMHTIWGL APDDDAVLYRRKEDIAALDHLRVAHRHGRFLDSIYRKLPDGRWLTAHVEGRQKLAVNDHSPDSDHD LVGEVADDIRSIIDEFDPTLVVTCAAIGEHPDHEATRDAALFATHEKNVPVRLWEDLPYAVFKSGAVEL PQGFRLGSADVSSVKPEMRSQKFQAVERYSSQMVLLNGSENNLFDRLDEHARQNAPHGGYGETTW PVVRSDDS

# >DM\_train970

MALKRMGIVSDYEKIRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNRLFFQPHQA GLSKVQAAEHTLRNINPDVLFEVHNYNITTVENFQHFMDRISNGGLEEGKPVDLVLSCVDNFEARMTI NTACNELGQTWMESGVSENAVSGHIQLIIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTTM GVVAGILVQNVLKFLLNFGTVSFYLGYNAMQDFFPTMSMKPNPQCDDRNCRKQQEEYKKKVAALP KQEVIQ

>DM train971

### >DM train972

MSSGVDLGTENLYFQSNAMRLRHLSDPDSLPALDKSFAIERPALGLAPDAPPVRILLLYGSLRARSFSR LAVEEAARLLQFFGAETRIFDPSDLPLPDQVQSDDHPAVKELRALSEWSEGQVWCSPERHGQITSVM KAQIDHLPLEMAGIRPTQGRTLAVMQVSGGSQSFNAVNTLRLLGRWMRMFTIPNQSSIAKAFQEFD AAGRMKPSPYYDRIADVMEELVRFTALVRPHREALTDRYSERKAAGHVIDEATDLSSIAIAPQPLPESET S

## >DM\_train973

## >DM train974

# >DM train976

APAPVKQGPTSVAYVEVNNNSMLNVGKYTLADGGGNAFDVAVIFAANINYDTGTKTAYLHFNENV QRVLDNAVTQIRPLQQQGIKVLLSVLGNHQGAGFANFPSQQAASAFAKQLSDAVAKYGLDGVDFD DEYAEYGNNGTAQPNDSSFVHLVTALRANMPDKIISLYNIGPAASRLSYGGVDVSDKFDYAWNPYY GTWQVPGIALPKAQLSPAAVEIGRTSRSTVADLARRTVDEGYGVYLTYNLDGGDRTADVSAFTRELY GSEAVRTP

>DM\_train978

>DM\_train979

MPLSSQPAILIIGGAEDKVHGREILQTFWSRSGGNDAIIGIIPSASREPLLIGERYQTIFSDMGVKELKVLD IRDRAQGDDSGYRLFVEQCTGIFMTGGDQLRLCGLLADTPLMDRIRQRVHNGEISLAGTSAGAAVM GHHMIAGGSSGEWPNRALVDMAVGLGIVPEIVVDQHFHNRNRMARLLSAISTHPELLGLGIDEDTC AMFERDGSVKVIGQGTVSFVDARDMSYTNAALVGANAPLSLHNLRLNILVHGEVYHQVKQRAFPRV

>DM train980

MSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYNPSLKGLNMTGYETQAGEFPMVN NGHTVQISLPSTMRMTVADGTVYIAQQMHFHWGGASSEISGSEHTVDGIRHVIEIHIVHYNSKYKSY DIAQDAPDGLAVLAAFVEVKNYPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQHYYTYH GSLTTPPCTENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLNHRVVESNFPNQE YTLGSEFO

>DM\_train981

WGALGHATVAYVAQHYVSPEAASWAQGILGSSSSSYLASIASWADEYRLTSAGKWSASLHFIDAED NPPTNCNVDYERDCGSSGCSISAIANYTQRVSDSSLSSENHAEALRFLVHFIGDMTQPLHDEAYAVG GNKINVTFDGYHDNLHSDWDTYMPQKLIGGHALSDAESWAKTLVQNIESGNYTAQAIGWIKGDNIS EPITTATRWASDANALVCTVVMPHGAAALQTGDLYPTYYDSVIDTIELQIAKGGYRLANWINEIHGSEI AK

>DM\_train982

MSIYTLGIDVGSTASKCIILKDGKEIVAKSLVAVGTGTSGPARSISEVLENAHMKKEDMAFTLATGYGRN SLEGIADKQMSELSCHAMGASFIWPNVHTVIDIGGQDVKVIHVENGTMTNFQMNDKCAAGTGRFL

#### >DM train983

#### >DM train984

GMTNVGRPIETHAITVGQGSDARSIAALVRAPAQDERPTCIWLGGYRSDMTGTKALEMDDLAASLG VGAIRFDYSGHGASGGAFRDGTISRWLEEALAVLDHFKPEKAILVGSSMGGWIALRLIQELKARHDNP TQVSGMVLIAPAPDFTSDLIEPLLGDRERAELAENGYFEEVSEYSPEPNIFTRALMEDGRANRVMAGMI DTGCPVHILQGMADPDVPYQHALKLVEHLPADDVVLTLVRDGDHRLSRPQDIDRMRNAIRAMIEPR P

## >DM\_train985

## >DM\_train986

GMANLLSTCTSESGNIQHISPQNAGWEYVGFDVWQLKAGESITLPSDERERCLVLVAGLASVKAADS FFYRIGQRMSPFERIPAYSVYLPHHTEAKVTAETDLELAVCSAPGFGELPVRLISPQEVGVEHRGKGRN QRLVHNILPDSQLADSLLVVEVYTNAGATSSWPAHKHDTAVEGQETYLEETYYHRFNPPQGFCLQRV YTDDRSLDECMAVYNRDVVKVPKGYHPVATIAGYDNYYLNVMAGPLRKWRFTWEENHAWINSPD VDP

## >DM\_train987

### >DM\_train988

## >DM\_train989

## >DM train990

# >DM train991

>DM train992

## >DM train994

NGHLQHHPPMPPHPGHYWPVHNELAFQPPISNHPAPEYWCSIAYFEMDVQVGETFKVPSSCPIVTV DGYVDPSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECKGEGDVWVRCLSDHAVFVQSYYLDR EAGRAPGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQAAAAAQAAAVAGNIPGPGSVGGIAP AISLSAAAGIGVDDLRRLCILRMSFVKGWGPDYPRQSIKETPCWIEIHLHRALQLLDEVLHTMPIADPQ PLD

## >DM train995

# >DM train996

## >DM\_train997

>DM train999

>DM\_train1001

SEDNGVDFNKNTALDKNYLLNNKIPSNNVEEAGSKNYVHYIIQLQGDDISYEATCNLFSKNPKNSIIIQ RNMNESAKSYFLSDDGESILELNKYRIPERLKNKEKVKVTFIGHGKDEFNTSEFARLSVDSLSNEISSFLD TIKLDISPKNVEVNLLGCNMFSYDFNVEETYPGKLLLSIMDKITSTLPDVNKNSITIGANQYEVRINSEGR KELLAHSGKWINKEEAIMSDLSSKEYIFFDSIDNKLKAKSKNIPGLASISEDIKTL

>DM train1002

>DM train1003

>DM train1004

MAPHGDGLSDIEEPEVDAQSEILRPISSVVFVIAMQAEALPLVNKFGLSETTDSPLGKGLPWVLYHGV HKDLRINVVCPGRDAALGIDSVGTVPASLITFASIQALKPDIIINAGTCGGFKVKGANIGDVFLVSDVVF HDRRIPIPMFDLYGVGLRQAFSTPNLLKELNLKIGRLSTGDSLDMSTQDETLIIANDATLKDMEGAAVA YVADLLKIPVVFLKAVTDLVDGDKPTAEEFLQNLTVVTAALEGTATKVINFINGRNLSDL

### >DM train1005

MKGFQFKVIQEKLQGRQFINSDKIKPDHPQTIIKKTLLKEYQSKNFSCQEERDLFLEFTEKIVQNFHNINF NYLLKKFCKLPENYQSLKSQVKQIVQSENKANQQSCENLFNSLYDTEISYKQITNFLRQIIQNCVPNQL LGKKNFKVFLEKLYEFVQMKRFENQKVLDYICFMDVFDVEWFVDLKNQKFTQKRKYISDKRKILGDLIV FIINKIVIPVLRYNFYITEKHKEGSOIFYYRKPIWKLVSKLTIVKLEEENLEKVEEKL

### >DM train1006

# >DM\_train1007

### >DM train1008

### >DM\_train1009

MHDLRISLVQGSTRWHDPAGNRDYYGALLEPLAGQSDLVILPETFTSGFSNEAIDKAEDMDGPTVA WIRTQAARLGAAITGSVQLRTEHGVFNRLLWATPDGALQYYDKRHLFRFGNEHLRYAAGRERLCVE WKGWRINPQVCYDLRFPVFCRNRFDVERPGQLDFDLQLFVANWPSARAYAWKTLLRARAIENLCFV

AAVNRVGVDGNQLHYAGDSAVIDFLGQPQVEIREQEQVVTTTISAAALAEHRARFPAMLDGDSFVL GE

>DM train1010

SNANFDTNMFKLENYVKEKYSLESLEIIPNEFDDTPTILSERISQVAAGVLRNLIDDNMKIGFSWGKSLS NLVDLIHSKSVRNVHFYPLAGGPSHIHAKYHVNTLIYEMSRKFHGECTFMNATIVQENKLLADGILQS RYFENLKNSWKDLDIAVVGIGDFSNKGKHQWLDMLTEDDFKELTKVKTVGEICCRFFDSKGKEVYENL OERTIAISLEDLKNIPOSLAVAYGDTKVSSILSVLRANLVNHLITDKNTILKVLEEDGDL

>DM train1012

>DM\_train1013

>DM\_train1014

>DM train1015

MRVLALSAVFLVASIIGMPAVAKEWOENKSWNAHFTEHKSOGVVVLWNENKOOGFTNNLKRANO

>DM\_train1016

>DM train1017

>DM train1018

>DM\_train1021

>DM train1022

### >DM train1023

## >DM\_train1024

## >DM train1025

#### >DM train1027

## >DM\_train1028

### >DM\_train1029

## >DM\_train1030

## >DM train1031

## >DM train1032

>DM train1033

MSWYPGHIEKAKRQIKDLLRLVNTVVEVRDARAPFATSAYGVDFSRKETIILLNKVDIADEKTTKKWVE FFKKQGKRVITTHKGEPRKVLLKKLSFDRLARVLIVGVPNTGKSTIINKLKGKRASSVGAQPGITKGIQWF SLENGVKILDTPGILYKNIFSEDLAAKLLLVGSLPVERIEDQRIFERAFEIFARSIGIESSFSEFFEDFARKRGL LKKGGVPDIERALMLFFTEVAQGKAGRVSFERPEDITPVQQEQTRGV

>DM train1034

>DM train1035

>DM\_train1036

>DM\_train1037

>DM\_train1038

>DM train1039

>DM train1041

>DM train1042

>DM\_train1043

>DM\_train1044

QQGKFDTKGIESTDEAKMSFLVTLNNVEVCSENISTLKKTLESDCTKLFSQGIGGEQAQAKFDSCLSDL AAVSNKFRDLLQEGLTELNSTAIKPQVQPWINSFFSVSHNIEEEEFNDYEANDPWVQQFILNLEQQM AEFKASLSPVIYDSLTGLMTSLVAVELEKVVLKSTFNRLGGLQFDKELRSLIAYLTTVTTWTIRDKFARLS QMATILNLERVTEILDYWGPNSGPLTWRLTPAEVRQVLALRIDFRSEDIKRLRL

### >DM\_train1045

### >DM train1047

# >DM\_train1048

### >DM train1049

MGAGEKGIVEKEGYQLDTRRQAQAAYPRIKVLVIHYTADDFDSSLATLTDKQVSSHYLVPAVPPRYN GKPRIWQLVPEQELAWHAGISAWRGATRLNDTSIGIELENRGWQKSAGVKYFAPFEPAQIQALIPLAK DIIARYHIKPENVVAHADIAPQRKDDPGPLFPWQQLAQQGIGAWPDAQRVNFYLAGRAPHTPVDT ASLLELLARYGYDVKPDMTPREQRRVIMAFQMHFRPTLYNGEADAETQAIAEALLEKYGQD

### >DM train1050

MHNNENVSGISAYLLGLIWGDGGLYKLKYKGNRSEYRVVITQKSENLIKQFIAPRMQFLIDELNVKSKI QIVKGDTRYELRVSSKKLYYYFANMLERIRLFNGNRFLAYLAGIVDGDGSIIAQIKPNQSYKFKHQLSLT FQVTQKTERRWFLDKLVDEIGVGYVRDRGSVSDYILSEIKPLHNFLTQLQPFLNFKQKQANLVLKIIEQL PSAKESPDKFLEVCTWVDOIAALNDSKTRKTTSETVRAVLDSLSEKKKSSP

### >DM train1051

# >DM\_train1052

### >DM train1053

### >DM\_train1054

MASVPENQAPKAIFTFSPEDPVTDENVVFNASNSIDEDGTIAYYVWDFGDGYEGTSTTPTITYKYKNP GTYKVKLIVTDNQGASSSFTATIKVTSATGDNSKFNFEDGTLGGFTTSGTNATGVVVNTTEKAFKGER GLKWTVTSEGEGTAELKLDGGTIVVPGTTMTFRIWIPSGAPIAAIQPYIMPHTPDWSEVLWNSTWKGY TMVKTDDWNEITLTLPEDVDPTWPQQMGIQVQTIDEGEFTIYVDAIDWLEHHHHHH

>DM train1055

MGIMPRKVLAIKNFKERFDLLPKLKGVIAEKQPDILVVVGNILKNEALEKEYERAHLARREPNRKVIHEN EHYIIETLDKFFREIGELGVKTFVVPGKNDAPLKIFLRAAYEAETAYPNIRVLHEGFAGWRGEFEVIGFGG LLTEHEFEEDFVLKYPRWYVEYILKFVNELKPRRLVTIFYTPPIGEFVDRTPEDPKHHGSAVVNTIIKSLNP EVAIVGHVGKGHELVGNTIVVNPGEFEEGRYAFLDLTQHKIKLEQFS

>DM\_train1056

MYTKNFSNSRMEVKGNNGCSAPIIRKPFKHIVLTVPSSDLDNFNTVFYVQPQYINQALHLANAFQGA IDPLNLNFNFEKALQIANGIPNSAIVKTLNQSVIQQTVEISVMVEQLKKIIQEVLGLVINSTSFWNSVEAT IKGTFTNLDTQIDEAWIFWHSLSAHNTSYYYNILFSIQNEDTGAVMAVLPLAFEVSVDVEKQKVLFFTIK DSARYEVKMKALTLVQALHSSNAPIVDIFNVNNYNLYHSNHKIIQNLNLSN

>DM\_train1058

MSNENKTIHDFELNLICDFFSNMERQGPGSPEVTLKALSFIDNLTEKSLIADIGCGTGGQTMVLAGHVT GQVTGLDFLSGFIDIFNRNARQSGLQNRVTGIVGSMDDLPFRNEELDLIWSEGAIYNIGFERGLNEWR KYLKKGGYLAVSECSWFTDERPAEINDFWMDAYPEIDTIPNQVAKIHKAGYLPVATFILPENCWTDHY FTPKVAAOKIFLTKYAGNKIAEEFSMLOSIEEELYHKYKEYYGYTFFIAKKIRL

>DM train1059

MSMLTIGGKSFQSRLLLGTGKYPSFDIQKEAVAVSESDILTFAVRRMNIFEASQPNFLEQLDLSKYTLLP NTAGASTAEEAVRIARLAKASGLCDMIKVEVIGCSRSLLPDPVETLKASEQLLEEGFIVLPYTSDDVVLAR KLEELGVHAIMPGASPIGSGQGILNPLNLSFIIEQAKVPVIVDAGIGSPKDAAYAMELGADGVLLNTAV SGADDPVKMARAMKLAVEAGRLSYEAGRIPLKQYGTASSPGEGLPVLEH

>DM\_train1060

MKKVIIAGNGPSLKEIDYSRLPNDFDVFRCNQFYFEDKYYLGKKCKAVFYNPSLFFEQYYTLKHLIQNQ EYETELIMCSNYNQAHLENENFVKTFYDYFPDAHLGYDFFKQLKDFNAYFKFHEIYFNQRITSGVYMC

AVAIALGYKEIYLSGIDFYQNGSSYAFDTKQKNLLKLAPNFKNDNSHYIGHSKNTDIKALEFLEKTYKIKL YCLCPNSLLANFIELAPNLNSNFIIQEKNNYTKDILIPSSEAYGKFSKNIN

#### >DM train1061

## >DM train1062

## >DM\_train1063

LRYNLWFGVYDGKEIKLSENFEESFLKAENPSPLPFNVSEVGAKALGKDYYRILRKTALAVSEKMVEKEL RREDRYVVALVKALEEIDESINMLNEKLEDIRAVKESEITEKFEKKIRELRELRRDVEREIEEVMEKIAPNMT ELVGAKVAAKLLERAGSMERLVRLPASKIQVIGAEKSLYKAFARMKKGKKAKIPKHGIIFLHPFIRTLPKA KRGKMARFLAAKLAIAAKIDYFRGEIDESLYESIRRRYEELRRK

# >DM\_train1064

MISGILASPGIAFGKALLLKEDEIVIDRKKISADQVDQEVERFLSGRAKASAQLETIKTKAGETFGEEKEAIF EGHIMLLEDEELEQEIIALIKDKHMTADAAAHEVIEGQASALEELDDEYLKERAADVRDIGKRLLRNILGL KIIDLSAIQDEVILVAADLTPSETAQLNLKKVLGFITDAGGRTSHTSIMARSLELPAIVGTGSVTSQVKND DYLILDAVNNQVYVNPTNEVIDKMRAVQEQVASEKAELAKLKD

### >DM train1065

MAEKAOFYYPGETDVAENRRKYMNPNYELKKLREIPDEDIVRLMGHREPGEEYPSVHPPLEEMEEPEC

PIRELVEPTEGAKAGDRIRYIQFTDSVYFAPIHPYIRARMYMWRYRGVDTGSLSGRQIIEVRERDLEKIAK ELLETEIFDPARSGVRGATVHGHALRLDENGLMLHALRRYRLNEETGEVEYVKDQVGIELDEPIPVGAP ADEDDLKERTTIYRIDGTPYREDEELLQVVQRIHELRTLAGYRPEEAEGK

>DM\_train1066

MATVKLSFLQHICKLTGLSRSGRKDELLRRIVDSPIYPTSRVLGIDLGIKNFSYCFASQNEDSKVIIHNWS VENLTEKNGLDIQWTEDFQPSSMADLSIQLFNTLHEKFNPHVILMERQRYRSGIATIPEWTLRVNMLE SMLYALHYAEKRNSIEQKIQYPFLLSLSPKSTYSYWASVLNTKASFSKKKSRVQMVKELIDGQKILFENE EALYKWNNGSRVEFKKDDMADSALIASGWMRWQAQLKHYRNFCKQFLKQ

>DM train1067

MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQI LKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCK GILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLI SAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAW

>DM\_train1068

MGSDKIHHHHHHMNDFKNQWLRKRTFAIPASRLTGRLTTLKSDVPAADSLFWKLWNGSLDTAVQV LQTDYFKGIAAGTLDPNAYGSLMVQDGYYCFRGRDDYATAATCAQDETLREFFKAKAKSYDEYNETY HQTWHLREASGLIPGTDIKDYADYEAYVAGSLASPYMCVVMLPCEYLWPWIANFLDGYTPTNSLYRF WIEWNGGTPNGAYQMGNMLEQYRDKIDEDKAVEIFNTAMNYELKVFTSSTILTTIENGK

>DM\_train1070

GSVTSANLDHTKPCWYWDKKDLAHTPSQLEGLDPATEARYRREGARFIFDVGTRLGLHYDTLATGIIY FHRFYMFHSFKQFPRYVTGACCLFLAGKVEETPKKCKDIIKTARSLLNDVQFGQFGDDPKEEVMVLERI LLQTIKFDLQVEHPYQFLLKYAKQLKGDKNKIQKLVQMAWTFVNDSLCTTLSLQWEPEIIAVAVMYLA GRLCKFEIQEWTSKPMYRRWWEQFVQDVPVDVLEDICHQILDLYSQGKQQMPH

>DM train1071

MVEDSRVRDALKGGDQKALPASLVPQAPPVLTSKDKITKRMIVVLAMASLETHKISSNGPGGDKYVLL NCDDHQGLLKKMGRDISEARPDITHQCLLTLLDSPINKAGKLQVYIQTSRGILIEVNPTVRIPRTFKRFS GLMVQLLHKLSIRSVNSEEKLLKVIKNPITDHLPTKCRKVTLSFDAPVIRVQDYIEKLDDDESICVFVGAM ARGKDNFADEYVDEKVGLSNYPLSASVACSKFCHGAEDAWNILHHHHHH

### >DM train1072

MSTGITYDEDRKTQLIAQYESVREVVNAEAKNVHVNENASKILLLVVSKLKPASDIQILYDHGVREFGE NYVQELIEKAKLLPDDIKWHFIGGLQTNKCKDLAKVPNLYSVETIDSLKKAKKLNESRAKFQPDCNPILC NVQINTSHEDQKSGLNNEAEIFEVIDFFLSEECKYIKLNGLMTIGSWNVSHEDSKENRDFATLVEWKKK IDAKFGTSLKLSMGMSADFREAIRQGTAEVRIGTDIFGARPPKNEARII

## >DM\_train1073

MATANNPPSGLLDPTLCEDRIFYNILEIEPRFLTSDSVFGTFQQSLTSHMRKLLGTWMFSVCQEYNLEP NVVALALNLLDRLLLIKQVSKEHFQKTGSACLLVASKLRSLTPISTSSLCYAAADSFSRQELIDQEKELLE KLAWRTEAVLATDVTSFLLLKLVGGSQHLDFWHHEVNTLITKALVDPLTGSLPASIISAAGCALLVPAN VIPQDTHSGGVVPQLASILGCDVSVLQAAVEQILTSVSDFDLRILDSY

## >DM train1074

AKQNVSSLDEKNSVSVDLPGEMKVLVSKEKNKDGKYDLIATVDKLELKGTSDKNNGSGVLEGVKADK CKVKLTISDDLGQTTLEVFKEDGKTLVSKKVTSKDKSSTEEKFNEKGEVSEKIITRADGTRLEYTGIKSDGS GKAKEVLKGYVLEGTLTAEKTTLVVKEGTVTLSKNISKSGEVSVELNDTDSSAATKKTAAWNSGTSTLTI TVNSKKTKDLVFTKENTITVQQYDSNGTKLEGSAVEITKLDEIKNALK

#### >DM train1075

MCELLGMSANVPTDIVFSFTGLMQRGGGTGPHRDGWGIAFYEGRGVRLFQDPLASVDSEVARLVQR FPIKSETVIGHIRQANVGKVGLSNTHPFIRELGGRYWTFAHNGQLADFQPKPGFYRPVGETDSEAAFC DLLNRVRRAFPEPVPVEVLLPVLISACDEYRKKGVFNALISDGDWLFTFCSSKLAYITRRAPFGPARLKD ADLTVDFHAETTPDDVVTVIATEPLTDNENWTLQQSGEWVLWWGGEVLAKGRV

## >DM\_train1076

GMAGAAHRLMEARMRRYDNKFARISDIDINQPESWRGRIFLTFDIDWAADFVLQDTIDLIEGAGVCA TWFATHSTPLLENIRRNPLFELGVHPNFNPLLAGAHAEGVQEILDRTLELAPGCVSVRSHSLVQATSIL NMFGERRLRYDCNILVPWDAGIVLQPWRHWTGDMVRVPYLWEDDVACLYDWEFDSTFDYWYQP DGINVLDFHPIHVYMNTESLRRYEDSREVHRNPVDLIRWRNTSAGSRTFLQSLLARNI

# >DM\_train1077

PDPMKNTCKLLVVADHRFYRYMGRGEESTTTNYLIELIDRVDDIYRNTAWDNAGFKGYGIQIEQIRILK SPQEVKPGEKHYNMAKSYPNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTLGLAY GGSPRANSHGGVCPKAYYSPVGKKNIYLNSGLTSTKNYGKTILTKEADLVTTHELGHNFGAEHDPDGL AECAPNEDQGGKYVMYPIAVSGDHENNKMFSQCSKQSIYKTIESKAQECFQERS

## >DM\_train1078

MTVRSRFFTEAEGKAVGVENAAAKGDVLLVCEHASATIPQKYGTLGLSADVLSSHAAWDPGALAVA RLLSEKFHATLVYQRFSRLVYDCNRPPESPSAMPVKSEIYDIPGNFDLDEAERFARTSALYVPFHDRVSE IIAERQAAGRKVVVVTIHSFTPVYHGRFREVEIGILHDNDSRLADAMLAGAEGASLTVRRNDPYGPED GVTHTLRLHALPDGLLNVMIEIRNDLIANEGEQAAIAGFLHELMGKALSSIEE

## >DM train1079

MPVEITVKELLEAGVHFGHERKRWNPKFARYIYAERNGIHIIDLQKTMEELERTFRFIEDLAMRGGTILFV GTKKQAQDIVRMEAERAGMPYVNQRWLGGMLTNFKTISQRVHRLEELEALFASPEIEERPKKEQVRL KHELERLQKYLSGFRLLKRLPDAIFVVDPTKEAIAVREARKLFIPVIALADTDSDPDLVDYIIPGNDDAIRSI QLILSRAVDLIIQARGGVVEPSPSYALVQEAEATETPEGESEVEA

### >DM train1080

MDFTKPETVLNLQNIRDELVRMEDSIIFKFIERSHFATCPSVYEANHPGLEIPNFKGSFLDWALSNLEIA HSRIRRFESPDETPFFPDKIQKSFLPSINYPQILAPYAPEVNYNDKIKKVYIEKIIPLISKRDGDDKNNFGSV ATRDIECLQSLSRRIHFGKFVAEAKFQSDIPLYTKLIKSKDVEGIMKNITNSAVEEKILERLTKKAEVYGVD PTNESGERRITPEYLVKIYKEIVIPITKEVEVEYLLRRLEE

>DM train1081

MTMDEQQSQAVAPVYVGGFLARYDQSPDEAELLLPRDVVEHWLHAQGQGQPSLSVALPLNINHD DTAVVGHVAAMQSVRDGLFCLGCVTSPRFLEIVRRASEKSELVSRGPVSPLQPDKVVEFLSGSYAGLSL SSRRCDDAEAPTSLSGSETTPFKHVALCSVGRRRGTLAVYGRDPEWVTQRFPDLTAADRDGLRAQW QRCGSTAVDASGDPFRSDSYGLLGNSVDALYIRERLPKLRYDKQLVGVTERESYVKA

>DM train1082

RPQPGDGERRYREASARKKIRLDRKYIVSCKQTEVPLSVPWDPSNQVYLSYNNVSSLKMLVAKDNWV LSSEISQVRLYTLEDDKFLSFHMEMVVHVDAAQAFLLLSDLRQRPEWDKHYRSVELVQQVDEDDAIY HVTSPALGGHTKPQDFVILASRRKPCDNGDPYVIALRSVTLPTHRETPEYRRGETLCSGFCLWREGDQ LTKVSYYNQATPGVLNYVTTNVAGLSSEFYTTFKACEQFLLDNRNDLAPSLQTL

>DM train1084

GSCEKENIGIEVTPVNAKFIITPVVIDATTGTDVTQSAEISFSKGNGTYEGTPELASESININAKYKGMTG SASVTIPALKAGQFGAKEVTIILSENFFAQEESSNSQIETTKHSGFKNNTSDYWYYITVTYTKKEGSEVIK NDYEGDDSEIKNIIDAYNKGVREDKVTLNDVQVLAHSRFSVFVDYMKTTSVYQIIEKSPKRDGNPVAS FTVDSYNTIVSPKNEQIPGHGHAPSHGHGHGDDSNAGGGIIIAD

>DM\_train1085

MAAESQLKRVIETLRRLGIEEVLKLERRDPQYRAVCNVVKRHGETVGSRLAMLNALISYRLTGKGEEH WEYFGKYFSQLEVIDLCRDFLKYIETSPFLKIGVEARKKRALKACDYVPNLEDLGLTLRQLSHIVGARREQ KTLVFTIKILNYAYMCSRGVNRVLPFDIPIPVDYRVARLTWCAGLIDFPPEEALRRYEAVQKIWDAVARE TGIPPLHLDTLLWLAGRAVLYGENLHGVPKEVIALFQWRGGCRPPSE

>DM\_train1086

SEPVTIVLSQMGWVRSAKGHDIDAPGLNYKAGDSFKAAVKGKSNQPVVFVDSTGRSYAIDPITLPSAR GQGEPLTGKLTLPPGATVDHMLMESDDQKLLMASDAGYGFVCTFNDLVARNRAGKALITLPENAHV MPPVVIEDASDMLLAITQAGRMLMFPVSDLPQLSKGKGNKIINIPSAEAARGEDGLAQLYVLPPQSTL TIHVGKRKIKLRPEELQKVTGERGRRGTLMRGLQRIDRVEIDSPRRASSGDSEE

>DM\_train1087

GSHPLGDTSDASKLSSDYSLPDLINTRKVPNNWQTGEQASLEEGRIVLTSNQNSKGSLWLKQGFDLK DSFTMEWTFRSVGYSGQTDGGISFWFVQDSNIPRDKQLYNGPVNYDGLQLLVDNNGPLGPTLRGQ LNDGQKPVDKTKIYDQSFASCLMGYQDSSVPSTIRVTYDLEDDNLLKVQVDNKVCFQTRKVRFPSGS YRIGVTAQNGAVNNNAESFEIFKMQFFNGVIEDSLIPNVNAMGQPKLITKYIDQQTG

>DM train1088

>DM train1089

>DM train1092

MIMPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDIT VQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGL EGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKT EELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSIL

>DM\_train1093

>DM\_train1094

MRPVYFLSDFGLEDPYVAVVKAVLAERAPGPAVVDLAHALPPQDLRRAAYALFEALPYLPEGAVVLAV VDPGVGTARRAVAALGRWTYVGPDNGLFTLAWLLDPPRRAFLLEPPRPRPKAALPGWAPGEATFHG RDVFAPAAAHLALGLPPEGLGPEVPVETLARLPLALTEGPEGEVLTFDRFGNAITTLLRAPVGGFVEVG GRRVPVRRTFGEVPEGAPVAYLGSAGLLEVAVNRGSAREALGLKEGMPVRLL

>DM\_train1095

MPAEIPEFKKLGLPDKVLELCHRKMGLILVTGPTGSGKSTTIASMIDYINQTKSYHIITIEDPIEYVFKHKKS IVNQREVGEDTKSFADALRAALREDPDVIFVGEMRDLETVETALRAAETGHLVFGTLHTNTAIDTIHRI VDIFPLNQQEQVRIVLSFILQGIISQRLLPKIGGGRVLAYGLLIPNTAIRNLIRENKLQQVYSLMQSGQAE TGMQTMNQTLYKLYKQGLITLEDAMEASPDPKELERMIRGGR

>DM train1096

MGSSSSGLVPRGSHMTTFHDLPLEERLTLARLGTSHYSRQLSLVDNAEFGEHSLLEGWTRSHLIAHVA YNAIALCNLMHWANTGEETPMYVSPEARNEEIAYGSTLNPDALRNLHEHSVARLDVAWRETSEDA WSHEVLTAQGRTVPASETLWMRSREVWIHAVDLGAVATFGDIPEVILRTLAAEITQKWTSQGAGEGL VLLDEPSSTRYPAAPGQDEVVVSGSLAGIVRYAAGRGSDGVTSSTGEVPEPPRWL

>DM\_train1097

GMDKYLSANSLEGVIDNEFSMPAPRWLNTYPAGPYRFINREFFIIAYETDPDLLQAILPPDMELLEPVV KFEFIRMPDSTGFGDYTESGQVVPVRYKGEEGGFTISMFLDCHAPIAGGREIWGFPKKLAKPKLFVEED TLIGILKYGSIDIAIATMGYKHRPLDAEKVLESVKKPVFLLKNIPNVDGTPLVNQLTKTYLTDITVKGAWT GPGSLELHPHALAPISNLYIKKIVSVSHFITDLTLPYGKVVADYLA

>DM train1098

MLDVAPPVITPRGTKIEPSAGAPFEAVRVARDVLHTSRTAALATLDPVSGYPYTTATNIGIEPDGTPFFF AAGLTLHARNMETDARISVTLAPFGKGDALTLPRLTLVGRADRIGPDEVPLAIARYIARYPKAKLYLSLP DTRLYRLRTEGVQINGGPARNASNITPADLRTDLSGAEELMAAAESEATRLNAIKGEASRLAVLAGAK TGRWKITSIDPDGIDLASASDLARLWFAERVETLKQFEKALAQLLK

>DM train1099

KDQIPIILIHGSGGNASSLDKMADQLMNEYRSSNEALTMTVNSEGKIKFEGKLTKDAKRPIIKFGFEQN QATPDDWSKWLKIAMEDLKSRYGFTQMDGVGHSNGGLALTYYAEDYAGDKTVPTLRKLVAIGSPFN DLDPNDNGMDLSFKKLPNSTPQMDYFIKNQTEVSPDLEVLAIAGELSEDNPTDGIVPTISSLATRLFMP GSAKAYIEDIOVGEDAVHOTLHETPKSIEKTYWFLEKFKTDETVIOLDYK

>DM train1100

MSKPWLFTVHGTGQPDPLGPGLPADTARDVLDIYRWQPIGNYPAAAFPMWPSVEKGVAELILQIELK LDADPYADFAMAGYSQGAIVVGQVLKHHILPPTGRLHRFLHRLKKVIFWGNPMRQKGFAHSDEWIH PVAAPDTLGILEDRLENLEQYGFEVRDYAHDGDMYASIKEDDLHEYEVAIGRIVMKASGFIGGRDSVV AQLIELGQRPITEGIALAGAIIDALTFFARSRMGDKWPHLYNRYPAVEFLRQI

>DM\_train1102

MWVYRLKGTLEALDPILPGLFDGGARGLWEREGEVWAFFPAPVDLPYEGVWEEVGDEDWLEAWRR DLKPALAPPFVVLAPWHTWEGAEIPLVIEPGMAFGTGHHETTRLALKALARHLRPGDKVLDLGTGSGV LAIAAEKLGGKALGVDIDPMVLPQAEANAKRNGVRPRFLEGSLEAALPFGPFDLLVANLYAELHAALA PRYREALVPGGRALLTGILKDRAPLVREAMAGAGFRPLEEAAEGEWVLLAYGR

>DM\_train1103

GAMSSKNEWRKSAIANTLLYLRLKNIYVSADDFVEEQNVYVLPKNLLKKFIEISDVKIQVAAFIYGMSAK DHPKVKEIKTVVLVPQLGHVGSVQISNIPDIGDLPDTEGLELLGWIHTQTEELKFMAASEVATHSKLFA DKKRDCIDISIFSTPGSVSLSAYNLTDEGYQWGEENKDIMNVLSEGFEPTFSTHAQLLLSDRITGNFIIPS GNVWNYTFMGTAFNQEGDYNFKYGIPLEFYNEMHRPVHFLQFSE

>DM\_train1104

SFQEQTTKSRDVNSFQIPLRDGVRELLPEDASRNRASIKSPVDIWIGGENMTALNGIVDGGRKFEAGQ EFQINTFGSVNYWVSDEEIRVFKEYSARAKYAQNEGRTALEANNVPFFDIDVPPELDGVPFSLKARVR HKSKGVDGLGDYTSISVKPAFYITEGDETTDTLIKYTSYGSTGSHSGYDFDDNTLDVMVTLSAGVHRVF

PVETELDYDAVQEVQHDWYDESFTTFIEVYSDDPLLTVKGYAQILMERT

>DM\_train1107

MAHTGQTAKSQGDTATMELTAKPRTPKQKLDESMIAAVAYNKENNVSFALDRKAFDRAFRQQSTT GLFDITVEGGETFPALVKAVQMDKRKRAPIHVDFYMVTYGEPVEVSVPVHTTGRSQGEVQGGLVDIV VHNLQIVAPGPRRIPQELVVDVTKMNIGDHITAGDIKLPEGCTLAADPELTVVSVLPPRLTAEELEAEV QAAQVAGLVAAGELSEEAAEAVLEGDASLEEVKAEASEDNAGTDSEDNSDAQ

>DM\_train1108

MGSDKIHHHHHHMTVLIIGMGNIGKKLVELGNFEKIYAYDRISKDIPGVVRLDEFQVPSDVSTVVECAS PEAVKEYSLQILKNPVNYIIISTSAFADEVFRERFFSELKNSPARVFFPSGAIGGLDVLSSIKDFVKNVRIETI KPPKSLGLDLKGKTVVFEGSVEEASKLFPRNINVASTIGLIVGFEKVKVTIVADPAMDHNIHIVRISSAIG NYEFKIENIPSPENPKTSMLTVYSILRTLRNLESKIIFG

>DM\_train1109

MAMQVPPLTELSPSISVHLLLGNPSGATPTKLTPDNYLMVKNQYALSYNNSKGTANWVAWQLNSS WLGNAERQDNFRPDKTLPAGWVRVTPSMYSGSGYARGHIAPSADRTKTTEDNAATFLMTNMMPQ TPDNNRNTWGNLEDYCRELVSQGKELYIVAGPNGSLGKPLKGKVTVPKSTWKIVVVLDSPGSGLEGIT ANTRVIAVNIPNDPELNNDWRAYKVSVDELESLTGYDFLSNVSPNIQTSIESKVDN

>DM train1110

MNNQGSIISVSLGPGDPGLITVKALSQLREADVIYYPGTVSASGAVTSVALDILKEFDLDPSKLRGMLV PMSRSRGAAEASYAANYASMAEEVQAGRRVAVVSVGDGGFYSTASAIIERARRDGLDCSMTPGIPAF IAAGSAAGMPLALQSDSVLVLAQIDEIGELERALVTHSTVVVMKLSTVRDELVSFLERYAKPFLYAEKVG MAGEFITMEVDALRSRAIPYFSLLVCSPHCRQSTLSPFASKLAAALE

>DM\_train1111

MSKVVPIASLTPYQSKWTICARVTNKSQIRTWSNSRGEGKLFSLELVDESGEIRATAFNEQVDKFFPLIE VNKVYYFSKGTLKIANKQFTAVKNDYEMTFNNETSVMPCEDDHHLPTVQFDFTGIDDLENKSKDSLV DIIGICKSYEDATKITVRSNNREVAKRNIYLMDTSGKVVTATLWGEDADKFDGSRQPVLAIKGARVSDFGGRSLSVLSSSTIIANPDIPEAYKLRGWFDAEGOALDGVSISDLKS

>DM train1112

SNAMTTPIRVVVWNEFRHEKKDEQVRAIYPEGMHTVIASYLAEAGFDAATAVLDEPEHGLTDEVLDR CDVLVWWGHIAHDEVKDEVVERVHRRVLEGMGLIVLHSGHFSKIFKKLMGTTCNLKWREADEKERL WVVAPGHPIVEGIGPYIELEQEEMYGEFFDIPEPDETIFISWFEGGEVFRSGCTFTRGKGKIFYFRPGHET YPTYHHPDVLKVIANAVRWAAPVNRGEIVFGNVKPLEPIKAKQGGVTQ

>DM train1114

LHWPTSLPSGDAFSSVGTHRFVQKVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKVYRREVEE NGIVLDPLKATHAVKGVTGHEVCNYFWNVDVRNDWETTIENFHVVETLADNAIIIYQTHKRVWPAS QRDVLYLSVIRKIPALTENDPETWIVCNFSVDHDSAPLNNRCVRAKINVAMICQTLVSPPEGNQEISR DNILCKITYVANVNPGGWAPASVLRAVAKREYPKFLKRFTSYVQEKTAGKPILF

>DM\_train1115

MGSDKIHHHHHHMSLDMKEHPDAEVQKNQVLTLEDWKEKWVTRHISFHQEQGHQLLKKHLDTFL KGQSGLRVFFPLCGKAIEMKWFADRGHTVVGVEISEIGIREFFAEQNLSYTEEPLAEIAGAKVFKSSSGSI SLYCCSIFDLPRANIGKFDRIWDRGALVAINPGDHDRYADIILSLLRKEFQYLVAVLSYDPTKHAGPPFY VPSAELKRLFGTKCSMQCLEEVDALEERHKAWGLDYLFEKLYLLTEK

>DM\_train1116

GPLGSPASVPLRTEEEFKKFISDKDASIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVESLVNEYDD NGEGIILFRPSHLTNKFEDKTVAYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVD YEKNAKGSNYWRNRVMMVAKKFLDAGHKLNFAVASRKTFSHELSDFGLESTAGEIPVVAIRTAKGEK FVMQEEFSRDGKALERFLQDYFDGNLKRYLKSEPIPESNDGAAAS

>DM train1117

MAETAVINHKKRKNSPRIVOSNDLTEAAYSLSRDOKRMLYLFVDOIRKSDGTLOEHDGICEIHVAKYA

EIFGLTSAEASKDIRQALKSFAGKEVVFYRPEEDAGDEKGYESFPWFIKPAHSPSRGLYSVHINPYLIPFFI GLQNRFTQFRLSETKEITNPYAMRLYESLCQYRKPDGSGIVSLKIDWIIERYQLPQSYQRMPDFRRRFL QVCVNEINSRTPMRLSYIEKKKGRQTTHIVFSFRDITSMTTG

>DM\_train1118

MGSLVREWVGFQQFPAATQEKLIEFFGKLKQKDMNSMTVLVLGKGGVGKSSTVNSLIGEQVVRVSPF QAEGLRPVMVSRTMGGFTINIIDTPGLVEAGYVNHQALELIKGFLVNRTIDVLLYVDRLDVYAVDELDK QVVIAITQTFGKEIWCKTLLVLTHAQFSPPDELSYETFSSKRSDSLLKTIRAGSKMRKQEFEDSAIAVVYA ENSGRCSKNDKDEKALPNGEAWIPNLVKAITDVATNQRKAIHVD

>DM train1119

MNINDALTSILASKKYRALCPDTVRRILTEEWGRHKSPKQTVEAARTRLHGICGAYVTPESLKAAAAAL SAGDVKKALSLHASTKERLAELDTLYDFIFSAETPRRVLDIACGLNPLALYERGIASVWGCDIHQGLGD VITPFAREKDWDFTFALQDVLCAPPAEAGDLALIFKLLPLLEREQAGSAMALLQSLNTPRMAVSFPTRS LGGRGKGMEANYAAWFEGGLPAEFEIEDKKTIGTELIYLIKKNG

>DM\_train1121

GHMNMSQSQEIVLQPRSIVVPGELLAEGEFQIPWSPYILKINSKYYSTVVGLFDVKDTQFEVIPLEGSFY YPKINDIVIGLVEDVEIYGWVVDIKAPYKAYLPASNLLGRSINVGEDLRRYLDVGDYVIARIENFDRSIDP VLSVKGKDLGRVSNGIVIDIMPVKVPRVIGKNKSMYETLTSKSGCSIFVANNGRIWATCPSRFSEEILIEA IRKIENESHIKGLTDRIKOFIEEKLGERNASSGETKTNS

>DM\_train1122

GMTPIAQRDGQAIQLVGFDGDDTLWKSEDYYRTAEADFEAILSGYLDLGDSRMQQHLLAVERRNLKI FGYGAKGMTLSMIETAIELTEARIEARDIQRIVEIGRATLQHPVEVIAGVREAVAAIAADYAVVLITKGDL FHQEQKIEQSGLSDLFPRIEVVSEKDPQTYARVLSEFDLPAERFVMIGNSLRSDVEPVLAIGGWGIYTPY AVTWAHEQDHGVAADEPRLREVPDPSGWPAAVRALDAQAGRQQ

>DM train1123

MPTFLLVNDDGYFSPGINALREALKSLGRVVVVAPDRNLSGVGHSLTFTEPLKMRKIDTDFYTVIDGTP ADCVHLGYRVILEEKKPDLVLSGINEGPNLGEDITYSGTVSGAMEGRILGIPSIAFSAFGRENIMFEEIAK VCVDIVKKVLNEGIPEDTYLNVNIPNLRYEEIKGIKVTRQGKRAYKERVFKYIDPYGKPFYWIAAEEFGW HAEEGTDYWAVLNGYVSVTPLHLDLTNYKVMKSIKYLEDSP

### >DM train1124

SGAMYIDCDGIKLNAYLDMPKNNPEKCPLCIIIHGFTGHSEERHIVAVQETLNEIGVATLRADMYGHG KSDGKFEDHTLFKWLTNILAVVDYAKKLDFVTDIYMAGHSQGGLSVMLAAAMERDIIKALIPLSPAAM IPEIARTGELLGLKFDPENIPDELDAWDGRKLKGNYVRVAQTIRVEDFVDKYTKPVLIVHGDQDEAVPY EASVAFSKQYKNCKLVTIPGDTHCYDHHLELVTEAVKEFMLEQIAK

## >DM\_train1126

MTFGEQPAYLRVAGDLRKKIVDGSLPPHTRLPSQARIREEYGVSDTVALEARKVLMAEGLVEGRSGSG TYVRERPVPRRVARSGYRPDSGATPFRQEQADGAVRGTWESHSEQAEASGAIAERLDIRPGERVMCT KYVFRDAGEVMMLSTSWEPLAVTGRTPVMLPEEGPVGGMGVVERMAAIDVIVDNVTEEVGARPGL AEELLTLGGVPGHVVLVIQRTYFASGRPVETADVVVPADRYRVAYHLPVK

## >DM train1127

SLPMQHVHTSPVRDYRNRCARREGETVFQVVVEETDLRVTALAELATPMAAYVGELRAQLKVWMEF QPAFRHSLVPVEVPEGAPEVVRRMAHGARLVGVGPFAAVAGTIAQMVAERFVDVSPELIVENGGDL YLYSERDRVVGILPDPASGDMVGILVRAGTAPVSLCGSSARIGHSLSLGDGDLAVVRARDASLADAAA TAFGNMLRRADDVAAVTERAAQLASIGIEGVYAQCGGRIGIWGDMELAVA

#### >DM train1128

GQLPVVGADGLRPMEQYARPWSGARGTRVAIVVGGLGLSQTGSQKAIRDLPPEVTLGFAASGNSLQ RWMQDARREGHEILLQIPLEPFGYPGTNPGPDTLLAGDPAKVNIDRLHRSMAKITNYTGVMNYLGG RFLAEQSALEPVMRDIGKRGLLFLDDGSSAQSLSGGIAKAISAPQGFADVLLDGEVTEASILRKLDDLER IARRNGQAIGVASAFDESIAAISKWSREAGGRGIEIVGVSALVSGQAG

## >DM\_train1129

MTDILIDDTATEAVRTLIRAFPLVPVSQPPEQGSYLLAEHDTVSLRLVGEKSNVIVDFTSGAAQYRRTKG GGELIAKAVNHTAHPTVWDATAGLGRDSFVLASLGLTVTAFEQHPAVACLLSDGIRRALLNPETQDT AARINLHFGNAAEQMPALVKTQGKPDIVYLDPMYPERRKSAAVKKEMAYFHRLVGEAQDEVVLLHT ARQTAKKRVVVKRPRLGEHLAGQAPAYQYTGKSTRFDVYLPYGADKG

## >DM\_train1130

GSPGILAPLAPGSEDNFARFVCKNNGVLFENQLLQIGLKSEFRQNLGRMFIFYGNKTSTQFLNFTPTLIC ADDLQTNLNLQTKPVDPTVDGGAQVQQVINIECISDFTEAPVLNIQFRYGGTFQNVSVKLPITLNKFF QPTEMASQDFFQRWKQLSNPQQEVQNIFKAKHPMDTEITKAKIIGFGSALLEEVDPNPANFVGAGII HTKTTQIGCLLRLEPNLQAQMYRLTLRTSKDTVSQRLCELLSEQF

## >DM\_train1132

MTTNDTYEATYAIPMHCENCVNDIKACLKNVPGINSLNFDIEQQIMSVESSVAPSTIINTLRNCGKDAI IRGAGKPNSSAVAILETFQKYTIDQKKDTAVRGLARIVQVGENKTLFDITVNGVPEAGNYHASIHEKGD VSKGVESTGKVWHKFDEPIECFNESDLGKNLYSGKTFLSAPLPTWQLIGRSFVISKSLNHPENEPSSVKD YSFLGVIARSAGVWENNKOVCACTGKTVWEERKDALANNIK

## >DM train1133

MKSMSEYLNLLKEAIQNVVDGGWHETKRKGNTGIGKTFEDLLEKEEDNLDAPDFHDIEIKTHETAAKS LLTLFTKSPTNPRGANTMLRNRYGKKDEYGNNILHQTVSGNRKTNSNSYNYDFKIDIDWESQVVRLE VFDKQDIMIDNSVYWSFDSLQNQLDKKLKYIAVISAESKIENEKKYYKYNSANLFTDLTVQSLCRGIEN GDIKVDIRIGAYHSGKKKGKTHDHGTAFRINMEKLLEYGEVKVIV

## >DM train1134

SWEIEELDREIGKIKKHSLILIHEEDASSRGKDILFYILSRKLKSDNLVGMFSISYPLQLIIRILSRFGVDVIKYL ENHRLAIVDTFGSFHGIKATMPGVWYLEGMLSSETLPIKYAKAVEDHKKVWMDLNLFEGRELYGFAIS MSGYLEVFTPEETLRYLETSAEVRYGHPAYKKYPRGTNFWLWEGVKDKRVLLSVYRRADYVLKTRSSL GENGIKRELLVIKTPKPIEELVRFEYEFKGNEPKLRR

>DM train1135

MTAAEHGLHAPAYAWSHNGPFETFDHASIRRGYQVYREVCAACHSLDRVAWRTLVGVSHTNEEVR NMAEEFEYDDEPDEQGNPKKRPGKLSDYIPGPYPNEQAARAANQGALPPDLSLIVKARHGGCDYIFS LLTGYPDEPPAGVALPPGSNYNPYFPGGSIAMARVLFDDMVEYEDGTPATTSQMAKDVTTFLNWCA EPEHDERKRLGLKTVIILSSLYLLSIWVKKFKWAGIKTRKFVFNPPKPRK

>DM train1136

VRSFIYEPFQIPSGSMMPTLLIGDFILVEKFAYGIKDPIYQKTLIETGHPKRGDIVVFKYPEDPKLDYIKRAV GLPGDKVTYDPVSKELTIQPGCSSGQACENALPVTYSNVEPSDFVQTFSRRNGGEATSGFFEVPKNET KENGIRLSERKETLGDVTHRILTVPIAQDQVGMYYQQPGQQLATWIVPPGQYFMMGDNRDNSADS RYWGFVPEANLVGRATAIWMSFDKQEGEWPTGLRLSRIGGIH

>DM\_train1137

GSHMASMTGGQQMGRGSEFKKYLETNGIKPKQFHKKELIFNQWDPQEYCIFLYDGITKLTSISENGTI MNLQYYKGAFVIMSGFIDTETSVGYYNLEVISEQATAYVIKINELKELLSKNLTHFFYVFQTLQKQVSYSL AKFNDFSINGKLGSICGQLLILTYVYGKETPDGIKITLDNLTMQELGYSSGIAHSSAVSRIISKLKQEKVIV YKNSCFYVQNLDYLKRYAPKLDEWFYLACPATWGKLN

>DM\_train1138

MSEAAQTLDGWYCLHDFRTIDWSAWKTLPNEEREAAISEFLALVDQWETTESEKQGSHAVYTIVGQK ADILFMILRPTLDELHEIETALNKTKLADYLLPAYSYVSVVELSNYLASGSEDPYQIPEVRRRLYPILPKTN YICFYPMDKRRQGNDNWYMLSMEQRRELMRAHGMTGRKYAGKVTQIITGSVGLDDFEWGVTLFSD DALQFKKLVYEMRFDEVSARFGEFGSFFVGTRLPMENVSSFFHV

>DM\_train1139

MAVTDLSLTNSSLMPTLNPMIQQLALAIAASWQSLPLKPYQLPEDLGYVEGRLEGEKLVIENRCYQTP QFRKMHLELAKVGKGLDILHCVMFPEPLYGLPLFGCDIVAGPGGVSAAIADLSPTQSDRQLPAAYQKS LAELGQPEFEQQRELPPWGEIFSEYCLFIRPSNVTEEERFVQRVVDFLQIHCHQSIVAEPLSEAQTLEHR QGQIHYCQQQQKNDKTRRVLEKAFGEAWAERYMSQVLFDVIQ

>DM\_train1140

MSDDPIAASQAVVLSQAQAQNSQYALARTFATQKVSLEESVLSQVTTAIQTAQEKIVYAGNGTLSDD DRASLATDLQGIRDQLMNLANSTDGNGRYIFAGYKTEAAPFDQATGGYHGGEKSVTQQVDSARTM VIGHTGAQIFNSITSNAVPEPDGSDSEKNLFVMLDTAIAALKTPVEGNNVEKEKAAAAIDKTNRGLKN SLNNVLTVRAELGTOLSELSTLDSLGSDRALGOKLOMSNLVDVDWNSV

>DM train1141

GMSEENKIGTYQFVAEPFHVDFNGRLTMGVLGNHLLNCAGFHASDRGFGIATLNEDNYTWVLSRLAI ELDEMPYQYEKFSVQTWVENVYRLFTDRNFAVIDKDGKKIGYARSVWAMINLNTRKPADLLALHGGS IVDYICDEPCPIEKPSRIKVTSNQPVATLTAKYSDIDINGHVNSIRYIEHILDLFPIELYQTKRIRRFEMAYV AESYFGDELSFFCDEVSENEFHVEVKKNGSEVVCRSKVIFE

>DM train1142

MGSDKIHHHHHHHMEDGMNTFDLYYWPVPFRGQLIRGILAHCGCSWDEHDVDAIEGLMDCGAEKQ PVAFMGPPVLIDRERNFAISQMPAIAIYLGERLDILPATVEGRTLSAKIVNDANDVLDELTLNGGREMW TPEKWQEFVPRLQKWIRIFADTGARNGLSAASGFMLGTEKIGVADIVTAILWTTVADRFPAIKGIIEDTS PIIWGLSRRVVATAPLAALNSKSFEEYGNAYCGGEIEKSLRKVAS

>DM train1143

GEAQPASGRFDQVGGAFGWKPHKLDPKECAQVAYDGYWYKGFGCGFGAFYSIVGLMGEKYGAPY NQFPFAMLEANKGGISDWGTICGALYGAAATFSLFWGRKEVHPMVNELFRWYEVTKLPIFNPGDAA QGVKGDLPMSASDSVLCHISVSKWCYENKIEATSKQRSERCGRLTADAAFKAAEIINTKIDQGKDFKST FPMQASVSSCGECHMTKGNDANWAKGIMDCTPCHSGTAATQNKFVNHP

>DM\_train1144

MRSRRVDVMDVMNRLILAMDLMNRDDALRVTGEVREYIDTVKIGYPLVLSEGMDIIAEFRKRFGCRII AAFKVADIPETNEKICRATFKAGADAIIVHGFPGADSVRACLNVAEEMGREVFLLTEMSHPGAEMFIQ GAADEIARMGVDLGVKNYVGPSTRPERLSRLREIIGQDSFLISPGVGAQGGDPGETLRFADAIIVGRSIY LADNPAAAAAGIIESIKDLLNPEDPAANKARKEAELAAATA

>DM\_train1145

MFKAIVSAATLRDALDSVSVLVDECKIRLNEESLSIRAVDPANVGMVDLTLDAAAFESYEAHGGVIGV NLSRLEEVAGMAGAGDLIHLTLDEETRKLNIRIDGLSYTLALIDPDSIRQEPDIPDLDLAANIVLEGTHLD RGIKAADMVSDHIRLRVDGAEETFHIEAEGDTDDVDLSLPPADLISIEAGAADSLFSLDYLKDMNKAIP TDAEVTVELGEEFPVKLHYQIAEGMGTITYMLAPRIQSD

>DM\_train1146

MAHHHHHHLPALKLALEYIVPCMNKHGICVVDDFLGKETGQQIGDEVRALHDTGKFTDGQLVSQKS DSSKDIRGDKITWIEGKEPGCETIGLLMSSMDDLIRHCNGKLGSYKINGRTKAMVACYPGNGTGYVRH VDNPNGDGRCVTCIYYLNKDWDAKVSGGILRIFPEGKAQFADIEPKFDRLLFFWSDRRNPHEVQPAY ATRYAITVWYFDADERARAKVKYLTGEKGVRVELNKPSDSVGKDVF

>DM train1147

SNATTHKFEHPLNEKTRIYLRVESLLRQAHLASGFADNHQYQLFFRALFDMVEIFEQIQLKSELAKDLEK QRLSYRHWLNVEGVDQEALNSLLNEIDVVHSQLMGAERFGQALKEDRFLSSIRQRFNLPGGSCCFDL PALHYWLHLPIERKKHDANQWQKSLKPLSDALTLWLKLARETGHFKAQIARAGFFQSDADEANILRL HIPMKYGVYPMISGHKNRFAIKFMAFENGQACSQDVEFELAVC

>DM\_train1148

GAMGMIDIHSHIVFDVDDGPKSREESKALLAESYRQGVRTIVSTSHRRKGMFETPEEKIAENFLQVREI AKEVASDLVIAYGAEIYYTPDVLDKLEKKRIPTLNDSRYALIEFSMNTPYRDIHSALSKILMLGITPVIAHIE RYDALENNEKRVRELIDMGCYTQVNSSHVLKPKLFGERYKFMKKRAQYFLEQDLVHVIASDMHNLD GRPPHMAEAYDLVTQKYGEAKAQELFIDNPRKIVMDQLI

>DM train1149

MISDSMTVEEIRLHLGLALKEKDFVVDKTGVKTIEIIGASFVADEPFIFGALNDEYIQRELEWYKSKSLFVK DIPGETPKIWQQVASSKGEINSNYGWAIWSEDNYAQYDMCLAELGQNPDSRRGIMIYTRPSMQFDY NKDGMSDFMCTNTVQYLIRDKKINAVVNMRSNDVVFGFRNDYAWQKYVLDKLVSDLNAGDSTRQ YKAGSIIWNVGSLHVYSRHFYLVDHWWKTGETHISKKDYVGKYA

>DM\_train1151

MEATIYDLDGNTDGEVDLPDVFETPVRSDLIGKAVRAAQANRKQDYGSDEYAGLRTPAESFGSGRG QAHVPKLDGRARRVPQAVKGRSAHPPKTEKDRSLDLNDKERQLAVRSALAATADADLVADRGHEF DRDEVPVVVSDDFEDLVKTQEVVSLLEALDVHADIDRADETKIKAGQGSARGRKYRRPASILFVTSDEP STAARNLAGADVATASEVNTEDLAPGGAPGRLTVFTESALAEVAER

>DM train1153

EQLLPDLLISPHMLPLTDLEIKFQYRGRPPRALTISNPHGCRLFYSQLEATQEQVELFGPISLEQVRFPSP EDIPSDKQRFYTNQLLDVLDRGLILQLQGQDLYAIRLCQCKVFWSGPCASAHDSCPNPIQREVKTKLF SLEHFLNELILFQKGQTNTPPPFEIFFCFGEEWPDRKPREKKLITVQVVPVAARLLLEMFSGELSWSADD IRLQISNPDLKDRMVEQFKELHHIWQSQQRLQPVAQA

>DM\_train1154

MKLARFLAKGRVHQGVYREGLLLDEAGEAHRPEDVTWLLPFTPGKILGVALNYADHAEELGLSRPEEP ALFWKPNTSLLPHKGVVLYPKGARFVHYEVELAVVVGRPMKRVRAKDALDYVLGYTIANDLVARDYV TNTFRPPIRAKGRDTFLPLGPFLVVEEVEDPQDLWLRAYVNGELRQEGHTSRMLYSVAELLEFISEFMT LEPYDVLLTGTPKGISQVRPGDVMRLEIEGLGALENPIEEEP

>DM train1157

KHYSIQPANLEFNAEGTPVSRDFDDVYFSNDNGLEETRYVFLGGNQLEARFPEHPHPLFVVAESGFGT GLNFLTLWQAFDQFREAHPQAQLQRLHFISFEKFPLTRADLALAHQHWPELAPWAEQLQAQWPMP LPGCHRLLLDEGRVTLDLWFGDINELISQLDDSLNQKVDAWFLDGFAPAKNPDMWTQNLFNAMAR LARPGGTLATFTSAGFVRRGLQEAGFTMQKRKGFGRKREMLCGVMEQT

>DM\_train1158

MYPVDLHMHTVASTHAYSTLSDYIAQAKQKGIKLFAITDHGPDMEDAPHHWHFINMRIWPRVVDG VGILRGIEANIKNVDGEIDCSGKMFDSLDLIIAGFHEPVFAPHDKATNTQAMIATIASGNVHIISHPGNP KYEIDVKAVAEAAAKHQVALEINNSSFLHSRKGSEDNCREVAAAVRDAGGWVALGSDSHTAFTMGE FEECLKILDAVDFPPERILNVSPRRLLNFLESRGMAPIAEFADL

>DM\_train1159

MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNVVGARRSSWRVVSSI EQKTEGAEKKQQMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKVFYLKMKGDYYRYLAEVAA GDDKKGIVDQSQQAYQEAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELD TLSEESYKDSTLIMQLLRDNLTLWTSDTQGDEAEAGEGGEN

>DM\_train1160

EMGTADLGPSSVPTPTNVTIESYNMNPIVYWEYQIMPQVPVFTVEVKNYGVKNSEWIDACINISHHY CNISDHVGDPSNSLWVRVKARVGQKESAYAKSEEFAVCRDGKIGPPKLDIRKEEKQIMIDIFHPSVFVN GDEQEVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDDCDEIQCQLAIPVSSLNSQYCVSAEGVL HVWGVTTEKSKEVCITIFNSSIKGSLWIPVVAALLLFLVLS

>DM\_train1161

MLSATQPLSEKLDSTLKHLAIIMDGNGRWAKLKNKARAYGHKKGVKTLKDITIWCANHKLECLTLYAF STENWKRPKSEVDFLMKMLKKYLKDERSTYLDNNIRFRAIGDLEGFSKELRDTILQLENDTRHFKDFTQ VLALNYGSKNELSRAFKSLLESPPSNISLLESLENEISNRLDTRNLPEVDLLLRTGGEMRLSNFLLWQSSY AELFFTPILWPDFTPKDLENIISDFYKRVRKFGELKA

>DM train1162

TESDMRATLVWSDEFDGPAGSAPDPANWNHETGDHGWGNNELQNYTDSRANSALDGNGNLVIT ARQEADGGYTSARLTTQNKVQPQYGRVEASIQIPRGQGIWPAFWMLGADFPNTPWPDSGEIDIME NIGREPHLVHGSLHGPGYFGGEPLTGSYMHPQGWSFADTFHTFAVDWRPGSITWSVDGVAYQTYT SADTRGNPWVFDQPFFMILNVAVGGDWPGYPDGSTQFPQEMRVDYVRVYELG

>DM\_train1163

AVKRRPRFPVNSNSNGGNELCPKIRIGQDDLPGFDLISQFQVDKAASRRAIQRVVGSATLQVAYKLG NNVDFRIPTRNLYPSGLPEEYSFLTTFRMTGSTLKKNWNIWQIQDSSGKEQVGIKINGQTQSVVFSYK

GLDGSLQTAAFSNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRGPIDIDGFAVLGKLADNP OVSVPFELOWMLIHCDPLRPRRETCHELPARITPSQTTDER

>DM train1164

MPDYSYRPTIGRTYVYDNKYYKNLDAVIKNAKRKKHFAEHEIEEATLDPLDNYLVAEDPFLGPGKNQK LTLFKEIRNVKPDTMKLVVGWKGKEFYRETWTRFMEDSFPIVNDQEVMDVFLVVNMRPTRPNRCYKF LAQHALRCDPDYVPHDVIRIVEPSWVGSNNEYRISLAKKGGGCPIMNLHSEYTNSFEQFIDRVIWENF YKPIVYIGTDSAEEEEILLEVSLVFKVKEFAPDAPLFTGPAY

>DM train1165

MADDRGDITPIGDCRVCSFRMSLLLTGRCTPGDACVAVESGRQIDRFFRNNPHLAVQYLADPFWER RAIAVRYSPVEALTPLIRDSDEVVRRAVAYRLPREQLSALMFDEDREVRITVADRLPLEQLEQMAADRD YLVRAYVVQRIPPGRLFRFMRDEDRQVRKLVAKRLPEESLGLMTQDPEPEVRRIVASRLRGDDLLELLH DPDWTVRLAAVEHASLEALRELDEPDPEVRLAIAGRLGIA

>DM\_train1166

SLRSDLINALYDENQKYDVCGIISAEGKIYPLGSDTKVLSTIFELFSRPIINKIAEKHGYIVEEPKQQNHYP DFTLYKPSEPNKKIAIDIKTTYTNKENEKIKFTLGGYTSFIRNNTKNIVYPFDQYIAHWIIGYVYTRVATRKS SLKTYNINELNEIPKPYKGVKVFLQDKWVIAGDLAGSGNTTNIGSIHAHYKDFVEGKGIFDSEDEFLDY WRNYERTSQLRNDKYNNISEYRNWIYRGRK

>DM\_train1167

MDLTNGGVSPAATSAPLDWTTFRRVFLIDDAWRPLMEPELANPLTAHLLAEYNRRCQTEEVLPPRED VFSWTRYCTPDEVRVVIIGQDPYHHPGQAHGLAFSVRANVPPPPSLRNVLAAVKNCYPEARMSGHG CLEKWARDGVLLLNTTLTVKRGAAASHSRIGWDRFVGGVIRRLAARRPGLVFMLWGTHAQNAIRPD PRVHCVLKFSHPSPLSKVPFGTCQHFLVANRYLETRSISPIDWSV

>DM train1168

TNVISTLDLNLLTKGGGSWNVDGVNMKKSAVTTFDGKRVVKAVYDKNSGTSANPGVGGFSFSAVPD

GLNKNAITFAWEVFYPKGFDFARGGKHGGTFIGHGAASGYQHSKTGASNRIMWQEKGGVIDYIYPPS DLKQKIPGLDPEGHGIGFFQDDFKNALKYDVWNRIEIGTKMNTFKNGIPQLDGESYVIVNGKKEVLKRI NWSRSPDLLISRFDWNTFFGGPLPSPKNQVAYFTNFQMKKYE

>DM\_train1169

QRSYERDFPHHDRICIVKTHGTRQSQEGDKPEELDFSQVSGGVAPAIQEEIPGVELATRTTLYGTSKMI LEDNKTYETKTLLAEPAFLDMFGVELIAGVRDSALRDNMTCLISESLARKMGGDVLGKRLRPAESKSDR AITIGGVFEDLPHNSSIQADMLLPITWMPAESLNNWIGNDRYIAYVRLRPGVSPESLDEALLEMQKRH ODMEVFRKAGVELHYSLTPFNRLRLEDPTLVNMLRIQQ

>DM train1170

MRSRTANRSGIVIRRRVTPAGDIIVTLLTPQGKLKAIARGGVKGPLSSSLNLFHHVGVQVYQGPHNDL ASVKQAVLEGALPTLAEPERYAFAHLMAEFADALFQEGEFSEQAFDLFAASLRGVAHQPDPEWVALV MSYKLLGLAGVIPQTARCARCGAPDPEHPDPLGGQLLCSKCAALPPYPPAVLDFLRHAVRRTVRASFE OPVPSADRPALWRALEKFVTVOVGGVHSWRQLVPSGVPVLS

>DM\_train1171

MKIDLNADLGEGCASDAELLTLVSSANIACGFHAGDAQIMQACVREAIKNGVAIGAHPSFPDRENFG RSAMQLPPETVYAQTLYQIGALATIARAQGGVMRHVKPHGMLYNQAAKEAQLADAIARAVYACDP ALILVGLAGSELIRAGKQYGLTTREEVFADRGYQADGSLVPRSQSGALIENEEQALAQTLEMVQHGRV KSITGEWATVAAOTVCLHGDGEHALAFARRLRSAFAEKGIVVAA

>DM\_train1172

MARSQLSAAGEQHVIQLNQQGGKNLFCFPPISGFGIYFKDLALQLNHKAAVYGFHFIEEDSRIEQYVS RITEIQPEGPYVLLGYSAGGNLAFEVVQAMEQKGLEVSDFIIVDAYKKDQSITADTENDDSAAYLPEAV RETVMQKKRCYQEYWAQLINEGRIKSNIHFIEAGIQTETSGAMVLQKWQDAAEEGYAEYTGYGAHK DMLEGEFAEKNANIILNILDKINSDQKVLPNKHGSHHHHHH

>DM train1173

GMPTLEMPVAAVLDSTVGSSEALPDFTSDRYKDAYSRINAIVIEGEQEAHDNYIAIGTLLPDHVEELKRL AKMEMRHKKGFTACGKNLGVEADMDFAREFFAPLRDNFQTALGQGKTPTCLLIQALLIEAFAISAYHT YIPVSDPFARKITEGVVKDEYTHLNYGEAWLKANLESCREELLEANRENLPLIRRMLDQVAGDAAVLQ MDKEDLIEDFLIAYQESLTEIGFNTREITRMAAAALVS

>DM train1174

SMLPEETILDKLPKDFQERITSSKWKDRVEALEEFWDSVLSQTKKLKSTSQNYSNLLGIYGHIIQKDANI QAVALAAQSVELICDKLKTPGFSKDYVSLVFTPLLDRTKEKKPSVIEAIRKALLTICKYYDPLASSGRNED MLKDILEHMKHKTPQIRMECTQLFNASMKEEKDGYSTLQRYLKDEVVPIVIQIVNDTQPAIRTIGFESF AILIKIFGMNTFVKTLEHLDNLKRKKIEETVKTL

>DM\_train1175

GMEFNHLTKQLNQLLAQDYVAFSITENPVVQMLSQASFAQIAYVMQQYSIFPKELVGFTELARRKAL GAGWNGVAQELQENIDEEMGSTTGGISHYTLLADGLEEGLGVAVKNTMPSVATSKLLRTVLSLFDRQ VDYVLGATYAIEATSIPELTLIVKLVEWLHEGAIPKDLQYFFSKHLDEWEIEHEAGLRTSVAAYIQPEEFG EFAAGFRAMIDAMQVWWQELAQEAISSEVVLSTAIAQHH

>DM train1176

ATSMTDIKGFNMISIEQEKELGNKFAVEIEKQQQPVNDPEVQRYVDKVGKRLLSGARAVEFDYVFKVV KDDSVNAFAIPGGRVYVHTGLLKAADNETELAGVLAHEINHAVARHGTRQMTQEYGYSLVLSLVLGD NPNMLAQLAGQLFGKAGMMSYSREYENQADFLGVETMYKAGYNPNGLTSFFQKLNAMDGGTQS NVARFFSTHPLTSERIQRVQAEIAKLPPQRYLTDETEFKKIKGRLK

>DM train1178

FADRMVIKAQSPAGFAEEYIIESIWNNRFPPGTILPAERELSELIGVTRTTLREVLQRLARDGWLTIQHGK PTKVNNFWETSGLNILETLARLDHESVPQLIDNLLSVRTNISTIFIRTAFRQHPDKAQEVLATANEVAD HADAFAELDYNIFRGLAFASGNPIYGLILNGMKGLYTRIGRHYFANPEARSLALGFYHKLSALCSEGAH DQVYETVRRYGHESGEIWHRMQKNLPGDLAIQGR

## >DM\_train1179

GMTSSFTDYCKFFNRILSEVQETQEQAIIKGAHLVSEAVMNGGRFYVFGSGHSHMIAEEIYNRAGGLA LVTAILPPELMLHERPNKSTYLERIEGLSKSYLKLHQVTNKDVIMIISNSGRNTVPVEMAIESRNIGAKVI AMTSMKHSQKVTSRHKSGKKLYEYADVVLDNGAPVGDAGFQIANSEIYSGATSDSIGCFLAQALIVET LHLLVQQGFEPPVFKSSNVDGADLYNDKIFNEYVKW

## >DM\_train1180

GHMHAPLVSKDLDYISTANHDQPPRHLGSRFSAEGEFLPEPGNTVVCHLVEGSQTESAIVSTRQRFLD MPEASQLAFTPVSSLHMTVFQGVIESRRALPYWPQTLPLDTPIDAVTDYYRDRLSTFPTLPAFNMRVT GLRPVGMVMKGATAEDDSIVALWRDTFADFFGYRHPDHDTYEFHITLSYIVSWFEPECLPRWQAML DEELEKLRVAAPVIOMRPPAFCEFKDMNHFKELVVFDKRGS

#### >DM\_train1181

MARYYVLDLSEDFRRELRETLAEMVNPVEVHVFLSKSGCETCEDTLRLMKLFEEESPTRNGGKLLKLNV YYRESDSDKFSEFKVERVPTVAFLGGEVRWTGIPAGEEIRALVEVIMRLSEDESGLEDATKEALKSLKGR VHIETIITPSCPYCPYAVLLAHMFAYEAWKQGNPVILSEAVEAYENPDIADKYGVMSVPSIAINGYLVFV GVPYEEDFLDYVKSAAEGRLTVKGPIRAGEAEEL

## >DM train1182

MIRLIFLDIDKTLIPGYEPDPAKPIIEELKDMGFEIIFNSSKTRAEQEYYRKELEVETPFISENGSAIFIPKGYF PFDVKGKEVGNYIVIELGIRVEKIREELKKLENIYGLKYYGNSTKEEIEKFTGMPPELVPLAMEREYSETIFE WSRDGWEEVLVEGGFKVTMGSRFYTVHGNSDKGKAAKILLDFYKRLGQIESYAVGDSYNDFPMFEV VDKVFIVGSLKHKKAQNVSSIIDVLEVIK

# >DM\_train1183

MSADHDHDHDHDHKPAPMVEEVSDFEILEMAVRELAIEKGLFSAEDHRVWKDYVHTLGPLPAA RLVAKAWLDPEYKKLCIEDGVEASKAVGVNWVTSPPTQFGTPSDYCNLRVLADSPTLKHVVVCTLCS CYPRPILGQSPEWYRSPNYRRRLVRWPRQVLAEFGLQLPSEVQIRVADSNQKTRYIVMPVRPEGTDG WTEDQLAEIVTRDCLIGVAVPKPGITVNAKRPVLKANRPVHHDH

>DM train1185

AELLLGVNIDHIATLRNARGTAYPDPVQAAFIAEQAGADGITVHLREDRRHITDRDVRILRQTLDTRM NLEMAVTEEMLAIAVETKPHFCCLVPEKRQEVTTEGGLDVAGQRDKMRDACKRLADAGIQVSLFIDA DEEQIKAAAEVGAPFIEIHTGCYADAKTDAEQAQELARIAKAATFAASLGLKVNAGHGLTYHNVKAIA AIPEMHELNIGHAIIGRAVMTGLKDAVAEMKRLMLEARG

>DM train1186

MGSDKIHHHHHHMIVQRRNHRFLEVLSGKERVKIIAEFKKASPSAGDINADASLEDFIRMYDELADAIS ILTEKHYFKGDPAFVRAARNLTCRPILAKDFYIDTVQVKLASSVGADAILIIARILTAEQIKEIYEAAEELGM DSLVEVHSREDLEKVFSVIRPKIIGINTRDLDTFEIKKNVLWELLPLVPDDTVVVAESGIKDPRELKDLRGK VNAVLVGTSIMKAENPRRFLEEMRAWSE

>DM train1187

MGVEKVPKYDIPVKKVEYVFIELDKMKPHEQLVQRELEDFIESVTGSGIFWKPMLLAKIPGTDEYLIVDG HHRWAGLQKLGAKRAPSVILDYFDEGVKVYTWYPAFKGDVNKVIERLKAEGLEVIEDEKAEEKAEKGEI AFALIGEKSFAIPGGLEEQKKVSKVLDEMDQAKEIELVYYGLKEDAKADMEKGEIDYVFIRKAPTKEEVM ELVKRGEVFSPKTTRHVLPFIPDKIDVKLEDLF

>DM\_train1188

GSYFSKQIIWQEVDRTKQQTSALIHNIFDSHFAAIQIHHDSNSKSEVIRDFYTDRDTDVLNFFFLSIDQS DPSHTPEFRFLTDHKGIIWDDGNAHFYGVNDLILDSLANRVSFSNNWYYINVMTSIGSRHMLVRRVPI LDPSTGEVLGFSFNAVVLDNNFALMEKLKSESNVDNVVLVANSVPLANSLIGDEPYNVADVLQRKSS DKRLDKLLVIETPIVVNAVTTELCLLTVQDNQSVVTL

>DM\_train1189

MAETEALSKLREDFRMQNKSVFILGASGETGRVLLKEILEQGLFSKVTLIGRRKLTFDEEAYKNVNQEVV DFEKLDDYASAFQGHDVGFCCLGTTRGKAGAEGFVRVDRDYVLKSAELAKAGGCKHFNLLSSKGAD KSSNFLYLQVKGEVEAKVEELKFDRYSVFRPGVLLCDRQESRPGEWLVRKFFGSLPDSWASGHSVPVV TVVRAMLNNVVRPRDKQMELLENKAIHDLGKAHGSLKP

>DM\_train1190

AIPKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVDKPPFSGMTGCGNTPIFKS GRGCGSCFEIKCTKPEACSGEPVVVHITDDNEEPIAPYHFDLSGHAFGAMAKKGDEQKLRSAGELELQ FRRVKCKYPEGTKVTFHVEKGSNPNYLALLVKYVNGDGDVVAVDIKEKGKDKWIELKESWGAIWRIDT PDKLTGPFTVRYTTEGGTKTEAEDVIPEGWKADTSYESK

>DM train1191

MKLIFLSGVKRSGKDTTADFIMSNYSAVKYQLAGPIKDALAYAWGVFAANTDYPCLTRKEFEGIDYDR ETNLNLTKLEVITIMEQAFCYLNGKSPIKGVFVFDDEGKESVNFVAFNKITDVINNIEDQWSVRRLMQA LGTDLIVNNFDRMYWVKLFALDYLDKFNSGYDYYIVPDTRQDHEMDAARAMGATVIHVVRPGQKS NDTHITEAGLPIRDGDLVITNDGSLEELFSKIKNTLKVL

>DM train1192

EEACELPECQEDAGNKVCSLQCNNHACGWDGGDCSLNFNDPWKNCTQSLQCWKYFSDGHCDS QCNSAGCLFDGFDCQRAEGQCNPLYDQYCKDHFSDGHCDQGCNSAECEWDGLDCAEHVPERLA AGTLVVVVLMPPEQLRNSSFHFLRELSRVLHTNVVFKRDAHGQQMIFPYYGMDVRGSIVYLEIDNRQ CVQASSQCFQSATDVAAFLGALASLGSLNIPYKIEAVQSETVEPPPPAQ

>DM train1193

GAGTQTAQTQALDSDGIPTGGEWITMFDGKTLNGWRGYCRQDVPLGWVVEDGSITYKGSDNKAD TGFGDLIYDKKFKNFVFEIEWKIDKAGNSGIFYTAQEIEGTPIYYSSPEYQLLDNENMPDAWEGCDGNR QAGAVYDMIMPDPQPVKPYGNWNKTRIVVYNQRVIHYMNDVKILEFQFGTPVWRALVDHSKFSKF STSPEKCPEAYDLMLQCGKQPGYIGMQDHGYGVCFRNIRIKEL

>DM\_train1194

EELPAPVKAIEKQGITIIKTFDAPGGMKGYLGKYQDMGVTIYLTPDGKHAISGYMYNEKGENLSNTLIEK EIYAPAGREMWQRMEQSHWLLDGKKDAPVIVYVFADPFCPYCKQFWQQARPWVDSGKVQLRTLL VGVIKPESPATAAAILASKDPAKTWQQYEASGGKLKLNVPANVSTEQMKVLSDNEKLMDDLGANVT PAIYYMSKENTLQQAVGLPDQKTLNIIMGNKLQHHHHHHHH

>DM\_train1195

MWDTSKDYRLLVAEKSVELFIRTIEGAKFRGQWDKKRSIQLAKEMIPDIQALRYSYIDPEELVDTPQMK DLKEKAKGIIEALGGEDWHHKFLSQASREDREKVEEQVARIKFFLNTILNLDRRLKLGKINDPVIAVDIVV GEVMSVGKHPSADRLLVTNVNIGERAVTVVTNDLTVKEGNRVAVALLPPRNFFGIVSEGMFLGAGEG VLKNVKGEIGGLPKGIPLEALNETRNAVEAFLKG

>DM\_train1196

MPINRPNLNLNIPPLNIVAAYDGAEIPSTNKHLKNNFNSLHNQMRKMPVSHFKEALDVPDYSGMRQ SGFFAMSQGFQLNNHGYDVFIHARRESPQSQGKFAGDKFHISVLRDMVPQAFQALSGLLFSEDSPV DKWAVTDMEKVVQQARVSLGAQFTLYIKPDQENSQYSASFLHKTRQFIECLESRLSENGVISGQCPES DVHPENWKYLSYRNELRSGRDGGEMQRQALREEPFYRLMTE

>DM train1198

MGRAFEYRRAAKEKRWDKMSKVFPKLAKAITLAAKDGGSEPDTNAKLRTAILNAKAQNMPKDNIDA AIKRASSKEGNLSEITYEGKANFGVLIIMECMTDNPTRTIANLKSYFNKTQGASIVPNGSLEFMFNRKSV FECLKNEVENLKLSLEDLEFALIDYGLEELEEVEDKIIIRGDYNSFKLLNEGFESLKLPILKASLQRIATTPIEL NDEQMELTEKLLDRIEDDDDVVALYTNIE

>DM\_train1199

MQQASTPTIGMIVPPAAGLVPADGARLYPDLPFIASGLGLGSVTPEGYDAVIESVVDHARRLQKQGA AVVSLMCTSLSFYRGAAFNAALTVAMREATGLPCTTMSTAVLNGLRALGVRRVALATAYIDDVNERL AAFLAEESLVPTGCRSLGITGVEAMARVDTATLVDLCVRAFEAAPDSDGILLSSGGLLTLDAIPEVERRL GVPVVSSSPAGFWDAVRLAGGGAKARPGYGRLFDES

>DM train1200

MSLYDVTEWKHVFKLDPNKDLPDEQLEILCESGTDAVIIGGSDGVTEDNVLRMMSKVRRFLVPCVLEV SAIEAIVPGFDLYFIPSVLNSKNADWIVGMHQKAMKEYGELMSMEEIVAEGYCIANPDCKAAALTEAD ADLNMDDIVAYARVSELLQLPIFYLEYSGVLGDIEAVKKTKAVLETSTLFYGGGIKDAETAKQYAEHAD VIVVGNAVYEDFDRALKTVAAVKGEEGGSHHHHHH

>DM train1201

GMKYKAAIFDMDGTILDTSADLTSALNYAFEQTGHRHDFTVEDIKNFFGSGVVVAVTRALAYEAGSSR ESLVAFGTKDEQIPEAVTQTEVNRVLEVFKPYYADHCQIKTGPFPGILDLMKNLRQKGVKLAVVSNKP NEAVQVLVEELFPGSFDFALGEKSGIRRKPAPDMTSECVKVLGVPRDKCVYIGDSEIDIQTARNSEMDE IAVNWGFRSVPFLOKHGATVIVDTAEKLEEAILGE

>DM train1205

MDIRPRLRIGQINLGGAEDATRELPSIARDLGLDIVLVQEQYSMVGFLAQCGAHPKAGVYIRNRVLPC AVLHHLSSTHITVVHIGGWDLYMVSAYFQYSDPIDPYLHRLGNILDRLRGARVVICADTNAHSPLWH SLPRHYVGRGQEVADRRAKMEDFIGARRLVVHNADGHLPTFSTANGESYVDVTLSTRGVRVSEWRV TNESSSDHRLIVFGVGGGTTGERDEDEEARSDLRPGEP

>DM train1206

GLPVMNTPGSNQYLTADNFQSPCALPEFDVTPPIDIPGEVKNMMELAEIDTMIPFDLSATKKNTMEM YRVRLSDKPHTDDPILCLSLSPASDPRLSHTMLGEILNYYTHWAGSLKFTFLFCGSMMATGKLLVSYAP PGADPPKKRKEAMLGTHVIWDIGLQSSCTMVVPWISNTTYRQTIDDSFTEGGYISVFYQTRIVVPLSTP REMDILGFVSACNDFSVRLLRDTTHIEOKALAO

>DM\_train1207

GVNPRGLGPLQIWQTDFTLEPRMAPRSWLAVTVDTASSAIVVTQHGRVTSVAVQHHWATAIAVLG RPKAIKTDNGSCFTSKSTREWLARWGIAHTTGIPGNSQGQAMVERANRLLKDRIRVLAEGDGFMKRI PTSKQGELLAKAMYALNHKERGENTKTPIQKHWRPTVLTEGPPVKIRIETGEWEKGWNVLVWGRGY AAVKNRDTDKVIWVPSRKVKPDITQKDEVTKKDEASPLFA

>DM\_train1209

MSLATTHLDVCAVVPAAGFGRRMQTECPKQYLSIGNQTILEHSVHALLAHPRVKRVVIAISPGDSRFA QLPLANHPQITVVDGGDERADSVLAGLKAAGDAQWVLVHDAARPCLHQDDLARLLALSETSRTGGI LAAPVRDTMKRAEPGKNAIAHTVDRNGLWHALTPQFFPRELLHDCLTRALNEGATITDEASALEYCG

## FHPQLVEGRADNIKVTRPEDLALAEFYLTRTIHQENT

>DM train1210

MKEEAVRVIEEVLKQGRTAMVEYEAKQVLKAYGLPVPEEKLAKTLDEALEYAKEIGYPVVLKLMSPQIL HKSDAKVVMLNIKNEEELKKKWEEIHENAKKYRPDAEILGVLVAPMLKPGREVIIGVTEDPQFGHAIMF GLGGIFVEILKDVTFRLVPITEKDARKMIQEIKAYPILAGARGEEPADIDAIVDMLLKVSKLVDDLKDYIKE MDLNPVFVYNKGEGAVIVDSRIILKPKD

>DM\_train1211

MASMTGGQQMGRGSEFSDKMSSFLHIGDICSLYAEGSTNGFISTLGLVDDRCVVQPEAGDLNNPPK KFRDCLFKLCPMNRYSAQKQFWKAAKPGANSTTDAVLLNKLHHAADLEKKQNETENRKLLGTVIQY GNVIQLLHLKSNKYLTVNKRLPALLEKNAMRVTLDEAGNEGSWFYIQPFYKLRSIGDSVVIGDKVVLNP VNAGQPLHASSHQLVDNPGCNEVNSVNCNTSWKIVLF

>DM\_train1212

PEFMVTTEPALADLQEQLYNGNEKSQLAAMSTLSTAGTEGYHLLQEFLKDSATFSPPPAPWIRGQAY RLLFHSPEASVQAFLQQHYPQGVIPLRSDRGVDYQELAKLLVAEKFEAADRLTTQKLCELAGPLAQKR RWLYFTEVEQLPIPDLQTIDQLWLAFSLGRFGYSVQRQLWLGCGQNWDRLWEKIGWRQGKRWPRY PNEFIWDLSAPRGHLPLTNQLRGVOVLNALLNHPAWTA

>DM train1213

MKIWSKEEVVNKLHEIKNKGYLSVPTDMFRTDDGVVGQILERQFGVQENNITLGDLGEFELKGMRNR KAKSNLTLFHKKPVAGQTVIQIFNRFGYVKPSSRNPEVMKKKLFTTIKGGRLNNLGLTLNAKHASEINLY YQDEYLSTWDLNLSKIEKLVLVFAETIGRANSPEEQFHFTKAYMLTEINDITSLINDGVLVMDLCIDQDL SKSKGPHDRGPHLRIPISKLDKLYRNIERLL

>DM\_train1214

MVHGKLKEAAEVTGSVSLEALEEVQVGENIEVGVGIDELVNAEAFAYDFTLNYDENAFEYVEAISDDG VFVNAKKIEDGKVRVLVSSLTGEPLPAKEVLAKVVLRAEAKTEGSNLSVTNSSVGDGEGLVHEIAGTEK TVNIIEGTSPEIVVNPVRDFKASEINKKNVTVTWTEPETTEGLEGYILYKDGKKVAEIGKDETSYTFKKLNR HTIYNFKIAAKYSNGEVSSKESLTLRTAR

>DM train1215

SNAMTNVLYQHGTLGTLMAGLLEGTATINELLEHGNLGIATLTGSDGEVIFLDGKAYHANEHKEFIELK GDEKVPYASITNFKASKTFPLQQLSQDDVFAQIKNEMLSENLFSAVKIYGTFKHMHVRMMPAQQPPY TRLIDSARRQPEEKRQDIRGAIVGFFTPELFHGVGSAGFHIHFADDERAYGGHVLDFEVDDVVVEIQNF ETFOQHFPVNNETFVKAKIDYKDVAEEIREAE

>DM train1216

MRLRVDVIPGEHLAYPDVVLVVDVIRATTTAAAFLEAGAEALYWTPSLESALAFKDEDVVLAGETGGL KPPRFDLGNSPREALSAQVAGRVVVMSTTNGTKAAHAAARTAKHVLLASLYNAHAAARLARELATEE VAILCAGKEGRAGLDDLYTAGVLAEYLGFLGEVEPEDGARVALAVKRAYPDPLEALSLSAAALALKQV GLEADVPFCAQVAKSAAVPVLRGRVGEALIFKRA

>DM\_train1217

MGTKLKKSNNDITIFSENEYNEIVEMLRDYSNGDNLEFEVSFKNINYPNFMRITEHYINITPENKIESNN YLDISLIFPDKNVYRVSLFNQEQIGEFITKFSKASSNDISRYIVSLDPSDDIEIVYKNRGSGKLIGIDNWAITI KSTEEIPLVAGKSKISKPKITGSERIMYRYKTRYSFTINKNSRIDITDVKSSPIIWKLMTVPSNYELELELINKI DINTLESELLNVFMIIQD

>DM\_train1218

TYNISVVGLSGTEKEKGQCGIGKSCLCNRFVRPSADEFHLDHTSVLSTSDFGGRVVNNDHFLYWGEV SRSLEDCVECKMHIVEQTEFIDDQTFQPHRSTALQPYIKRAAATKLASAEKLMYFCTDQLGLEQDFEQ KQMPDGKLLVDGFLLGIDVSRGMNRNFDDQLKFVSNLYNQLAKTKKPIVVVLTKCDEGVERYIRDAH TFALSKKNLOVVETSARSNVNVDLAFSTLVQLIDK

>DM train1219

NNILFGLSHEGSHPQTLHAAQSLELSSFRFTMQSDCNLVLFDSDVRVWASNTAGATGCRAVLQSDG

LLVILTAQNTIRWSSGTKGSIGNYVLVLQPDRTVTIYGPGLWDSGTSNKGSVVVANNGNSILYSTQGN DNHPQTLHATQSLQLSPYRLSMETDCNLVLFDRDDRVWSTNTAGKGTGCRAVLQPNGRMDVLTN QNIAVWTSGNSRSAGRYVFVLQPDRNLAIYGGALWTTG

>DM\_train1221

EVKKKNKKNKKVNGLPPEIAAVPELAKYWAQRYRLFSRFDDGIKLDREGWFSVTPEKIAEHIAGRVS QSFKCDVVVDAFCGVGGNTIQFALTGMRVIAIDIDPVKIALARNNAEVYGIADKIEFICGDFLLLASFLK ADVVFLSPPWGGPDYATAETFDIRTMMSPDGFEIFRLSKKITNNIVYFLPRNADIDQVASLAGPGGQV EIEONFLNNKLKTITAYFGDLIRRPASET

>DM train1222

MLTEGISIQSYDGHTFGALVGSPAKAPAPVIVIAQDIFGVNAFMRETVSWLVDQGYAAVCPDLYARQ APGTALDPQDERQREQAYKLWQAFDMEAGVGDLEAAIRYARHQPYSNGKVGLVGYSLGGALAFLV ASKGYVDRAVGYYGVGLEKQLNKVPEVKHPALFHMGGQDHFVPAPSRQLITEGFGANPLLQVHWY EEAGHSFARTGSSGYVASAAALANERTLDFLVPLQSRKP

>DM\_train1223

GSAPSATPIFAPGENCSPAWGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLE VGFGMAIAASKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGIL YDTYPLSEETWHTHQFNFIKNHAFRLLKPGGVLTYCNLTSWGELMKSKYSDITIMFEETQVPALLEAGF RRENIRTEVMALVPPADCRYYAFPOMITPLVTKG

>DM\_train1224

GMTTRKPFIICDFDGTITMNDNIINIMKTFAPPEWMALKDGVLSKTLSIKEGVGRMFGLLPSSLKEEITSF VLEDAKIREGFREFVAFINEHEIPFYVISGGMDFFVYPLLEGIVEKDRIYCNHASFDNDYIHIDWPHSCKG TCSNQCGCCKPSVIHELSEPNQYIIMIGDSVTDVEAAKLSDLCFARDYLLNECREQNLNHLPYQDFYEI RKEIENVKEVQEWLQNKNAGESSLK

>DM train1225

MSPVLTTPKRHAPPPEQLQNVTDFNYTPSHQKPFLQPQAGTTVTTHQDIKQIVEMTLGSEGVLNQA VKLPRGEDENEWLAVHCVDFYNQINMLYGSITEFCSPQTCPRMIATNEYEYLWAFQKGQPPVSVSAP KYVECLMRWCQDQFDDESLFPSKVTGTFPEGFIQRVIQPILRRLFRVYAHIYCHHFNEILELNLQTVLNT SFRHFCLFAQEFELLRPADFGPLLELVMELRDR

>DM train1226

MSEWKARRFWASVGIHKEEGGWAVLLDERPLRTPGKQPLRLPTEALALAIAEEWQAVQEVIDPNAM PLTRSANSAIEKVAPQFDAVAAMLGDYGGTDLLSYRADAPEALVRAQAEGWDPLIDWAATELRAPL RITHGVIPVPQDPVVLLKLRAEVASLDPFGLTALHDLVTLPGSLILGLAVIRGRIDAPTAHALSRIDEEFQ AERWGRDEEAEAQAASRLAAMRDSERFWHLTRG

>DM\_train1227

MHLYSSDFPLMMDEKELYEKWMRTVEMLKAEGIIRSKEVERAFLKYPRYLSVEDKYKKYAHIDEPLPIPA GQTVSAPHMVAIMLEIANLKPGMNILEVGTGSGWNAALISEIVKTDVYTIERIPELVEFAKRNLERAGV KNVHVILGDGSKGFPPKAPYDVIIVTAGAPKIPEPLIEQLKIGGKLIIPVGSYHLWQELLEVRKTKDGIKIK NHGGVAFVPLIGEYGWKEHHHHHH

>DM train1228

GSPEFATMSVSEIFVELQGFLAAEQDIREEIRKVVQSLEQTAREILTLLQGVHQGTGFQDIPKRCLKARE HFSTVKTHLTSLKTKFPAEQYYRFHEHWRFVLQRLVFLAAFVVYLETETLVTREAVTEILGIEPDREKGFH LDVEDYLSGVLILASELSRLSVNSVTAGDYSRPLHISTFINELDSGFRLLNLKNDSLRKRYDGLKYDVKKV EEVVYDLSIRGFNKETAAACGEK

>DM\_train1229

MNRLLNEKVEEFKKGVLKAGWFIEKMFRNSISSLVERNESLAREVIADEEVVDQMEVEIQEKAMEVLGL FSPIGKPLLTVTAGIRVAELIENIADKCHDIAKNVLELMEEPPLKPLEDIPAMANQTSEMLKFALRMFAD VNVEKSFEVCRMDSKVDDLYEKVREELLLYMMESPKYVKRALLLLEIAGNIEIIADYATNIVEVSVYMVQ GEAYKCYHDELLLFKKSGGVLFESSD

## >DM\_train1230

MKRYRTLLFDVDDTILDFQAAEALALRLLFEDQNIPLTNDMKAQYKTINQGLWRAFEEGKMTRDEVV NTRFSALLKEYGYEADGALLEQKYRRFLEEGHQLIDGAFDLISNLQQQFDLYIVTNGVSHTQYKRLRDS GLFPFFKDIFVSEDTGFQKPMKEYFNYVFERIPQFSAEHTLIIGDSLTADIKGGQLAGLDTCWMNPDMK PNVPEIIPTYEIRKLEELYHILNIENTVSC

## >DM\_train1231

MGLMKFQLFIQPKLDVLQGNIVEYEILLRDDSAVPRFPLSELEAVLADEELYLAFSEWFSEAFLDVLKKY PNDRFAINIAPQQLFYIETLHWLDKLKSESHRITVEMTEDIFDVPGHKRHLNANDKNAFILNKIKVIHGL GYHIAIDDVSCGLNSLERVMSYLPYIIEIKFSLIHFKNIPLEDLLLFIKAWANFAQKNKLDFVVEGIETKET MTLLESHGVSIFOGYLVNKPFPV

## >DM\_train1232

MGSSSSGLVPRGSTSEVIEDEKQFYSKAKTYWKQIPPTVDGMLGGYGHISSIDINSSRKFLQRFLREGP NKTGTSCALDCGAGIGRITKRLLLPLFREVDMVDITEDFLVQAKTYLGEEGKRVRNYFCCGLQDFTPEP DSYDVIWIQWVIGHLTDQHLAEFLRRCKGSLRPNGIIVIKDNMAQEGVILDDVDSSVCRDLDVVRRIIC SAGLSLLAEEROENLPDEIYHVYSFALR

#### >DM train1233

MVSRLSTGILDFDKLIQGGIPQGFFIALTGEPGTGKTIFSLHFIAKGLRDGDPCIYVTTEESRDSIIRQAKQ FNWDFEEYIEKKLIIIDALMKEKEDQWSLVNLTPEELVNKVIEAKQKLGYGKARLVIDSVSALFLDKPAM ARKISYYLKRVLNKWNFTIYATSQYAITTSQAFGFGVEHVADGIIRFRRMIRNGELHRYILIEKMRQTDH DKHVWEIDIVNGKGIVLKGRLEE

#### >DM train1234

GMSETITFPPLMTGEAAGPGQDPFDLACQKAELGVDAGLVVYELGTDVLRAALVLAPEVPLAKAMA MLPVCGVGFQNALGALAPPEVAVHLDWNGALRINGARCGRLRIAASTDDPDTQPDWLVVGLDLPL WPEGDGGETPDETALYAEGCADVAAPRLLESWARHCLHWINRWDEGELETIHGEWRGLAHGMGE ARTEAGRSGTFLGVDEDFGMLLRDETTTHLIPLTTVLVQD

>DM train1235

NAKRDRIFVRVYNVMKRINCFINKNIKKSSTDSNYQLAVFMLMETMFFIRFGKMKYLKENETVGLLTLK NKHIEISPDEIVIKFVGKDKVSHEFVVHKSNRLYKPLLKLTDDSSPEEFLFNKLSERKVYECIKQFGIRIKDL RTYGVNYTFLYNFWTNVKSISPLPSPKKLIALTIKQTAEVVGHTPSISKRAYMATTILEMVKDKNFLDVV SKTTFDEFLSIVVDHVKSSTDG

>DM train1236

SETNTIFKLEGVSVLSPLRKKLDLVFYLSNVDGSPVITLLKGNDRELSIYQLNKNIKMASFLPVPEKPNLIY LFMTYTSCEDNKFSEPVVMTLNKENTLNQFKKLGLLDSNVTDFEKCVEYIRKQAILTGFKISNPFVNSTL VDTDAEKINSFHLQCHRGTKEGTLYFLPDHIIFGFKKPILLLDASDIESITYSSITRLTFNASLVTKDGEKYE FSMIDQTEYAKIDDYVKRK

>DM\_train1237

LNEEQLSKRLEKVASYITKNERIADIGSDHAYLPCFAVKNQTASFAIAGEVVDGPFQSAQKQVRSSGLT EQIDVRKGNGLAVIEKKDAIDTIVIAGMGGTLIRTILEEGAAKLAGVTKLILQPNIAAWQLREWSEQNN WLITSEAILREDNKVYEIMVLAPSEKPVTWTKQEIFFGPCLLKEQSAIFKSKWRHEANTWQNIIQTISNN QPVSTENQAKIRELEHKIALVEDVLK

>DM\_train1238

DIKVTPGTSELVEQILALLSRYLSSYIHVLNKFISHLRRVATLRFERTTLIKFVKKLRFYNDSVLSYNASEFIN EGKNELDPEADSFDKVILPIASMFVKSVETFDLLNYYLTQSLQKEILSKTLNEDLTLTAESILAIDDTYNHF VKFSQWMIESLRIGSNLLDLEVVQFAIKSADEDGTNIGETDNIFLQEILPVNSEEEFQTLSAAWHSILDG KLSALDEEFDVVATKWHD

>DM\_train1239

GMSRTLVLFDIDGTLLKVESMNRRVLADALIEVYGTEGSTGSHDFSGKMDGAIIYEVLSNVGLERAEIA DKFDKAKETYIALFRERARREDITLLEGVRELLDALSSRSDVLLGLLTGNFEASGRHKLKLPGIDHYFPFG AFADDALDRNELPHIALERARRMTGANYSPSQIVIIGDTEHDIRCARELDARSIAVATGNFTMEELARH KPGTLFKNFAETDEVLASILTPKHS

>DM\_train1240

MASVTEQFNDIISLYSTKLEHTSLRQDSPEYQGLLLSTIKKLLNLKTAIFDRLALFSTNETIDDVSTASIKFL AVDYYLGLLISRRQSNDSDVAQRQSMKLIYLKKSVESFINFLTLLQDYKLLDPLVGEKLGNFKDRYNPQ LSELYAQPKNNKDLSGAQLKRKEKIELFQRNKEISTKLHCLELELKNNDEDHDHDELLRELYLMRLHHF SLDTINNIEONLFECEMLSNFLK

>DM train1242

ARSEKRVPMTRLRKRVAERLLEAKNSTAMLTTFNEVNMKPIMDLRKQYGEAFEKRHGIRLGFMSFYVK AVVEALKRYPEVNASIDGDDVVYHNYFDVSMAVSTPRGLVTPVLRDVDTLGMADIEKKIKELAVKGR DGKLTVEDLTGGNFTITNGGVFGSLMSTPIINPPQSAILGMHAIKDRPMAVNGQVEILPMMYLALSYD HRLIDGRESVGFLVTIKELLEDPTRLLLDV

>DM train1243

SVPFEYTPIAQSVLDECEHLDTASLSDALDSLGIDGGLPGIASQVPGTRCVGIAFTVQYQPVDASEGFR GAANYIDQVPSGSVIVSSNSGRHDCTVWGDIMTHFALANGIKGTVIDGVARDIDTVINCNYPLFSRG RFMQSAKNRTQLKAVQVPLVIDGITIQPGDLMVCDGSGCVVVPQQLAAEVVLRARAVEQTERRIIEAI SSGSTLEQARMTYRYDQPWLSEAEHGGTQ

>DM train1244

KGFSSEDKGEWKLKLDASGNGQAVIRFLPAKTDDALPFAILVNHGFKKNGKWYIETCSSTHGDYDSCP VCQYISKNDLYNTNKTEYSQLKRKTSYWANILVVKDPQAPDNEGKVFKYRFGKKIWDKINAMIAVDT EMGETPVDVTCPWEGANFVLKVKQVSGFSNYDESKFLNQSAIPNIDDESFQKELFEQMVDLSEMTSK DKFKSFEELNTKFNQVLGTAALGGAAAAAAS

>DM\_train1245

RAQANEDIVVSKTSLWKEMQYNRDITIRFKFASSIVKSGGLGYKWSEISFKPANYQYTYTRDGEEVTAH TTCSVNGMNDFNFNGGSLPTDFVISRYEVIKENSYVYVDYWDDSQAFRNMVYVRSLAANLNSVICT GGDYSFALPVGQWPVMTGGAVSLHSAGVTLSTQFTDFVSLNSLRFRFRLTVEEPSFSITRTRVSRLYGL PAANPNNGKEYYEVAGRFSLISLVPSNDD

>DM\_train1246

DNSNGSTIPSSITSGSIFDLEGDNPNPLVDDSTLVFVPLEAQHITPNGNGWRHEYKVKESLRVAMTQT YEVFEATVKVEMSDGGKTIISQHHASDTGTISKVYVSDTDESGFNDSVANNGIFDVYVRLRNTSGNEE KFALGTMTSGETFNLRVVNNYGDVEVTAFGNSFGIPVEDDSQSYFKFGNYLQSQDPYTLDKCGEAG NSNSFKNCFEDLGITESKVTMTNVTYTRETN

>DM\_train1247

TTVYLAGDSTMAKNGGGSGTNGWGEYLASYLSATVVNDAVAGRSARSYTREGRFENIADVVTAGDY VIVEFGHNDGGSLSTDNGRTDCSGTGAEVCYSVYDGVNETILTFPAYLENAAKLFTAKGAKVILSSQTP NNPWETGTFVNSPTRFVEYAELAAEVAGVEYVDHWSYVDSIYETLGNATVNSYFPINHTHTSPAGAE VVAEAFLKAVVCTGTSLKSVLTTTSFEGTCL

>DM train1248

MGSDKIHHHHHHMKIDILDKGFVELVDVMGNDLSAVRAARVSFDMGLKDEERDRHLIEYLMKHGH ETPFEHIVFTFHVKAPIFVARQWFRHRIASYNELSGRYSKLSYEFYIPSPERLEGYKTTIPPERVTEKISEIVD KAYRTYLELIESGVPREVARIVLPLNLYTRFFWTVNARSLMNFLNLRADSHAQWEIQQYALAIARIFKEK CPWTFEAFLKYAYKGDILKEVOV

>DM\_train1249

GSHMSQPRPLLSPPETEEQLLAQAQQLSGYTLGELAALVGLVTPENLKRDKGWIGVLLEIWLGASAGS KPEQDFAALGVELKTIPVDSLGRPLETTFVCVAPLTGNSGVTWETSHVRHKLKRVLWIPVEGERSIPLA QRRVGSPLLWSPNEEEDRQLREDWEELMDMIVLGQVERITARHGEYLQIRPKAANAKALTEAIGARG ERILTLPRGFYLKKNFTSALLARHFLIO

>DM train1250

MSVEGLGKDFCGAIIPDNFFPIEKLRNYTQMGLIRDFAKGSAVIMPGEEITSMIFLVEGKIKLDIIFEDGSE KLLYYAGGNSLIGKLYPTGNNIYATAMEPTRTCWFSEKSLRTVFRTDEDMIFEIFKNYLTKVAYYARQVA EMNTYNPTIRILRLFYELCSSQGKRVGDTYEITMPLSQKSIGEITGVHHVTVSRVLASLKRENILDKKKNK IIVYNLGELKHLSEQTSYY

>DM train1251

MSLITMKKIGVILSGCGVYDGSEIHEAVLTLLAISRSGAQAVCFAPDKQQVDVINHLTGEAMTETRNVL IEAARITRGEIRPLAQADAAELDALIVPGGFGAAKNLSNFASLGSECTVDRELKALAQAMHQAGKPLG FMCIAPAMLPKIFDFPLRLTIGTDIDTAEVLEEMGAEHVPCPVDDIVVDEDNKIVTTPAYMLAQNIAEA ASGIDKLVSRVLVLAEEGGSHHHHHH

>DM train1252

MAAYQVLIVGAGFSGAETAFWLAQKGVRVGLLTQSLDAVMMPFLPPKPPFPPGSLLERAYDPKDERV WAFHARAKYLLEGLRPLHLFQATATGLLLEGNRVVGVRTWEGPPARGEKVVLAVGSFLGARLFLGGV VEEAGRLSEASYPDLLEDLSRLGFRFVEREGEVPETPSTPGYRVRYLAFHPEEWEEKTFRLKRLEGLYAVG LCVREGDYARMSEEGKRLAEHLLHELG

>DM\_train1253

GSHMAKTLKDLDGWQVIITDDQGRVIDDNNRRRSRKRGGENVFLKRISDGLSFGKGESVIFNDNVTE TYSVYLIHEIRLNTLNNVVEIWVFSYLRWFELKPKLYYEQFRPDLIKEDHPLEFYKDKFFNEVNKSELYLTA ELSEIWLKDFIAVGQILPESQWNDSSIDKIEDRDFLVRYACEPTAEKFVPIDIFQIIRRVKEMEPKQSDEYL KRVSVPVSGOKTNROVMHKMG

>DM train1254

MWKTASDKGLGHLLRDVWSLLNEEERELLDKEIQPFPCKKASTVFSEGDIPNNLFYLYEGKIKILREGVY GRFHISRIVKPGQFFGMRPYFAEETCSSTAIAVENSKVLAIPVEAIEALLKGNTSFCRYFLKALAKELGYAE RRTVTLTQKHVRGRLAETLLILKENFGFENDGATLSIYLSREELATLSNMTVSNAIRTLSTFVSERMLALD GKRIKIIDCDRLQKTARSG

>DM\_train1255

EIAVQNPLVSERLELSVLYKEYAEDDNIYQQKIKDLHKKYSYIRKTRPDGNCFYRAFGFSHLEALLDDSK ELQRFKAVSAKSKEDLVSQGFTEFTIEDFHNTFMDLIEQVEKQTSVADLLASFNDQSTSDYLVVYLRLLT SGYLQRESKFFEHFIEGGRTVKEFCQQEVEPMCKESDHIHIIALAQALSVSIQVEYMDRGEGGTTNPHIF

#### PEGSEPKVYLLYRPGHYDILYK

>DM\_train1256

MPPKRAALIQNLRDSYTETSSFAVIEEWAAGTLQEIEGIAKAAAEAHGVIRNSTYGRAQAEKSPEQLLG VLQRYQDLCHNVYCQAETIRTVIAIRIPEHKEEDNLGVAVQHAVLKIIDELEIKTLGSGEKSGSGGAPTPI GMYALREYLSARSTVEDKLLGSVDAESGKTKGGSQSPSLLLELRQIDADFMLKVELATTHLSTMVRAVI NAYLLNWKKLIQPRTGTDHMVS

>DM\_train1257

MSLIFLDYDGTLVPIIMNPEESYADAGLLSLISDLKERFDTYIVTGRSPEEISRFLPLDINMICYHGACSKIN GQIVYNNGSDRFLGVFDRIYEDTRSWVSDFPGLRIYRKNLAVLYHLGLMGADMKPKLRSRIEEIARIFG VETYYGKMIIELRVPGVNKGSAIRSVRGERPAIIAGDDATDEAAFEANDDALTIKVGEGETHAKFHVAD YIEMRKILKFIEMLGVQKKQ

>DM\_train1258

MEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMDPELLSMVPRPVCAVLLLFPITEKYEVFR TEEEEKIKSQGQDVTSSVYFMKQTISNACGTIGLIHAIANNKDKMHFESGSTLKKFLEESVSMSPEERAR YLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHLYELDGRKPFPINHGETSDETLLEDAI EVCKKFMERDPDELRFNAIALSAA

>DM train1260

DLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIQGDSESEAHLLDSKVPSVELTNLYPYCD YEMKVCAYGAQGEGPYSSLVSCRTHQEVPSEPGRLAFNVVSSTVTQLSWAEPAETNGEITAYEVCYG LVNDDNRPIGPMKKVLVDNPKNRMLLIENLRESQPYRYTVKARNGAGWGPEREAIINLATQPKRPMS IPIIPDIPIVDAQSGEDYDSFLMYSDDVLR

>DM train1261

QSCVWYGECGIAYGDKRYNCEYSGPPKPLPKDGYDLVQELCPGFFFGQVSLCCDVRQLQTLKDNLQLPLQFLSRCPSCFYNLLNLFCELTCSPRQSQFLQVTATEDYVDPVTNQTKTNVKELQYYVGQSFANA

MYNACRDVEAPSSNDKALGLLCGKDADACQATNWIEYMFNKDNGQAPFTITPVFSDFPVHGMEP MNNATKGCDESVDEVTAPCSCODCSIVCGPKPQ

>DM train1262

GMADAPIDIFQSILSRKSIRAFTDQPVTQETIREILKLAARAPSGTNLQPWQVIVLTGKILQKVGQELSQ LVLSGIKGEREYHYYPRQWREPYLSRRRKVGLDLYKSLGIQKGDQEKMLHQKAKNFLFYGAPVGLLFTI DHDMEMGSWLDLGMFMQTIMLAARGFGLDTCAQAAFADYHKQIRSLLSVPSDRHIICGMALGYRD MNAPENNFETEREPIDNFVHFIKSYP

>DM train1263

MSKNIVVAPSILSADFSRLGEEIKAVDEAGADWIHVDVMDGRFVPNITIGPLIVDAIRPLTKKTLDVHL MIVEPEKYVEDFAKAGADIISVHVEHNASPHLHRTLCQIRELGKKAGAVLNPSTPLDFLEYVLPVCDLILI MSVNPGFGGQSFIPEVLPKIRALRQMCDERGLDPWIEVDGGLKPNNTWQVLEAGANAIVAGSAVFN APNYAEAIAGVRNSKRPEPQLATV

>DM\_train1264

TKLYYEDQYIKEFKGEIIEVKEIDGKFHVLLDQTAFFPGGGGQMGDLGLIDGIKVLDVYEEEGKVYHVLE KEPKKLKNLQCELDWERRFDGMQQHLGQHLLSGCFYDLFGANTCGFHLGKEISTVDIVGFLDEKTIRE AEKEANRLIFENLEVKSYAPSKKELKKVKTRRALPKTDEEIRIVEIVGLDLNACCGVHPRNTRDLQVIKIRR WEKHKNATRIEYVAGNRAVS

>DM\_train1266

LLHKRVVLASASPRRQEILSNAGLRFEVVPSKFKEKLDKASFATPYGYAMETAKQKALEVANRLYQKDL RAPDVVIGADTIVTVGGLILEKPVDKQDAYRMLSRLSGREHSVFTGVAIVHCSSKDHQLDTRVSEFYEE TKVKFSELSEELLWEYVHSGEPMDKAGGYGIQALGGMLVESVHGDFLNVVGFPLNHFCKQLVKLYYP PRPEDLRRSVKHDSIPAADTFEDLS

>DM train1267

MTTGVRRRMGVEERRQQLIGVALDLFSRRSPDEVSIDEIASAAGISRPLVYHYFPGKLSLYEAALQRAS

DDLADRFVEPRQGPLGARLLRVMGRYFDFVDEHGPGFSALMRGGPAVGSTTTNALVDSVRQAAYV QILSHLDVTEPPARLELVVRSWISLAESTALLWLDGRRIPRAELETQLVHDFAALMAVSAAYDEEMGAL VRRVLADEPEDGPFGDLVDRLLALSAR

>DM\_train1268

TVSTINSTDALAMVEHSSELTLSITTPVGTKFVCRTPFIGTHTDKFLLVEMPKISADDLQYFFQEGFWM NIRAISPRGEGALIHFRSQLMHILQEPVPMAFLSIPNTMQVSQLRKEPRFELNLAGKVLFDEHRGDCEL RDLSRSGCRFITPPLGKTYQVGDLVALEIFSDLRGTKTFPPLTGKICNLQRSLHHARYGLEFNEEGRNNA KNLLAQLKFNGTKLTLNAEKKA

>DM train1269

GHHHHHHHGESLFKGPRDYNPISSTICHLTNESDGHTTSLYGIGFGPFIITNKHLFRRNNGTLLVQSLH GVFKVKNTTTLQQHLIDGRDMIIIRMPKDFPPFPQKLKFREPQREERICLVTTNFQTKSMSSMVSDTSC TFPSSDGIFWKHWIQTKDGQCGSPLVSTRDGFIVGIHSASNFTNTNNYFTSVPKNFMELLTNQEAQQ WVSGWRLNADSVLWGGHKVFMDKP

>DM\_train1270

KERAERDISMVVSGLTPKEVMIVQKFAEKYRLALTDVITEETTHVIIKTDAEFVCERTLKYFLGIAGGKWIV SYSWVIKSIQERKLLSVHEFEVKGDVVTGSNHQGPRRSRESQEKLFEGLQIYCCEPFTNMPKDELERML QLCGASVVKELPLLTRDTGAHPIVLVQPSAWTEDNDCPDIGQLCKGRLVMWDWVLDSISVYRCRDL DAYLVONITCGRDGSEPODSND

>DM\_train1271

MELLLLSNSTLPGKAWLEHALPLIANQLNGRRSAVFIPFAGVTQTWDEYTDKTAEVLAPLGVNVTGIH RVADPLAAIEKAEIIIVGGGNTFQLLKESRERGLLAPMADRVKRGALYIGWSAGANLACPTIRTTNDMP IVDPNGFDALDLFPLQINPHFTNALPEGHKGETREQRIRELLVVAPELTVIGLPEGNWIQVSNGQAVLG GPNTTWVFKAGEEAVALEAGHRF

>DM train1272

MDKIKQLFANNYSWAQRMKEENSTYFKELADHQTPHYLWIACSDSRVPAEKLTNLEPGELFVHRNV ANQVIHTDFNCLSVVQYAVDVLKIEHIIICGHTNCGGIHAAMADKDLGLINNWLLHIRDIWFKHGHLL GKLSPEKRADMLTKINVAEQVYNLGRTSIVKSAWERGQKLSLHGWVYDVNDGFLVDQGVMATSRET LEISYRNAIARLSILDEENILKKDHLENT

#### >DM train1273

SVDHGFLVTRHSQTTDDPQCPPGTKILYHGYSLLYVQGNERAHGQDLGTAGSCLRKFSTMPFLFCNI NNVCNFASRNDYSYWLSTPEPMPMSMAPITGENIRPFISRCAVCEAPAMVMAVHSQTIQIPQCPTG WSSLWIGYSFVMHTSAGAEGSGQALASPGSCLEEFRSAPFIECHGRGTCNYYANAYSFWLATIERSE MFKKPTPSTLKAGELRTHVSRCQVCMRRT

#### >DM\_train1274

MTTVRIPAGWPATEEEARAVQDELRGRVILDEPGPPPGTGRVTGVDVAYDDERDVVVAAAVVLDAA TLDVVAEATAVGEVSFPYVPGLLAFREIPTVLAALDALPCPPGLIVCDGYGVAHPRRFGLASHLGVLTG LPTIGVAKNPFTFSYEDPGAPRGSAAPLLAGADEVGRALRTQSGVKPVFVSVGHRVDLDHACAHTLA LTPKYRIPETTRRADSLCRRALKEATA

## >DM train1275

MNGIHDVGGMDGFGKVMYVKEEEDIYFTHDWERLALGLVAGCMAQGLGMKAFDEFRIGIELMRPV DYLTSSYYGHWIATVAYNLVDTGVLDEKELDERTEVFSKKPDTKIPRREDPALVKLVEKALNDGLSPLRE ISASPRFKVGERIKTKNIHPTGHTRFPRYARDKYGVIDEVYGAHVFPDDAAHRKGENPQYLYRVRFEAE ELWGYKOKDSVYIDLWESYMEPVSH

#### >DM\_train1276

SHMTPDIILQRTGIDVRAVEQGDDAWHKLRLGVITASEVHNVIAKPRSGKKWPDMKMSYFHTLLAEV CTGVAPEVNAKALAWGKQYENDARTLFEFTSGVNVTESPIIYRDESMRTACSPDGLCSDGNGLELKC PFTSRDFMKFRLGGFEAIKSAYMAQVQYSMWVTRKNAWYFANYDPRMKREGLHYVVIERDEKYMA SFDEIVPEFIEKMDEALAEIGFVFGEQWR

## >DM\_train1277

AESLPDLKIEKLDEGVYVHTSFEEVNGWGVVPKHGLVVLVNAEAYLIDTPFTAKDTEKLVTWFVERGYK IKGSISSHFHSDSTGGIEWLNSRSIPTYASELTNELLKKDGKVQATNSFSGVNYWLVKNKIEVFYPGPGH TPDNVVVWLPERKILFGGCFIKPYGLGNLGDANIEAWPKSAKLLKSKYGKAKLVVPSHSEVGDASLLKL TLEOAVKGLNESKKPSKPSN

## >DM\_train1278

GMSEDHPLDRPVWNSLGGPQSELDVASGNLRRLDPAYGPFAAAAPGAEAGLASLLQGDADEIWLV EPEPVAPPPGTRVIRVAPLLQMIADGPVPSFDDPGIVALGETDVPEMTALALATEPGPWASGTWRYG QFYGVRIDGRLAAMAGERMRPAPNLAEVSGVCTWPEYRGRGLAARLIRKVIAGMAARGEVPYLHSY ASNASAIRLYESLGFRARRAMTATLLGKST

## >DM\_train1279

RTEQQAASLEQTAASMEQLTATVKQNAENARQASHLALSASETAQRGGKVVDNVVQTMRDISTSS QKIADIISVIDGIAFQTNILALNAAVEAARAGEQGRGFAVVAGEVRNLAQRSAQAAREIKSLIEDSVGK VDVGSTLVESAGETMAEIVSAVTRVTDIMGEIASASDEQSRGIDQVGLAVAEMDRVTQQNAALVEQ SAAAAAALEEQASRLTEAVAVFRIQQQ

## >DM train1280

REFPPPNPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGQYSFSYQLEDEPWKLC RLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGLVARLADES GHVVLRWLPPPETPMTSHIRYEVDVSAGQGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARMAE PSFGGFWSEWSEPVSLLTPSDLDP

#### >DM train1281

MGSDKIHHHHHHMKNSFFSKFTPKEPKFFPLLKQLSDVLSASSVLLVESMEHDLPTERADYYKQIKDM EREGDRLTHLIFDELSTTFITPFDREDIHDLASCMDDVIDGINSSAKRIVIYNPRPISESGKELSRLIHEEAI NIGKAMDELETFRKNPKPLRDYCTQLHDIENQADDVYELFITKLFEEEKDCIELIKIKEIMHELEKTTDAAE HVGKILKNLIVKYS

>DM train1282

MERPLESYKKEAAHAAIAYVQDGMVVGLGTGSTARYAVLELARRLREGELKGVVGVPTSRATEELAKR EGIPLVDLPPEGVDLAIDGADEIAPGLALIKGMGGALLREKIVERVAKEFIVIADHTKKVPVLGRGPVPVE IVPFGYRATLKAIADLGGEPELRMDGDEFYFTDGGHLIADCRFGPIGDPLGLHRALLEIPGVVETGLFVG MATRALVAGPFGVEELLP

>DM train1283

MSLIEERLKHYLEKQIPARDQYIEQMEREAHEQQVPIMDLLGMESLLHLLKMAAPARILEIGTAIGYSAI RMAQALPEATIVSIERDERRYEEAHKHVKALGLESRIELLFGDALQLGEKLELYPLFDVLFIDAAKGQYRR FFDMYSPMVRPGGLILSDNVLFRGLVAETDIEHKRHKQLATKIDTYNQWLLEHPQYDTRIFPVGDGIAI SIKRETKGDTDDEKAEG

>DM\_train1284

GEMDERLLQKYRAQVFEWGGCFDKMFEALKSLIYLSEFENSEFDDEERHLLTLCIKHKISDYRTMTSQV LQEQTKQLNNDELVKICSEYVFSLRKDIKAFLQSFEDCVDRLVEKSFFSKFFKLKVKSDISRYKLEFGLCSL EDSKKIHQDAFTLLCEHPDKIEQLPLGFIQNLAYILSEKYGEKKQVFNMLNSLGKILELQIKEQENMDRK AQITVYLQGIKDYIEK

>DM\_train1285

SLTGEESDTLRKIVLEECLPNQQQNQNPSPCAEVKPNAGYVVLKDLNGPLQYLLMPTYRINGTESPLL TDPSTPNFFWLAWQARDFMSKKYGQPVPDRAVSLAINSRTGRTQNHFHIHISCIRPDVREQLDNNL ANISSRWLPLPGGLRGHEYLARRVTESELVQRSPFMMLAEEVPEAREHMGSYGLAMVRQSDNSFVLL ATQRNLLTLNRASAEEIQDHQCEILR

>DM\_train1287

MRDWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGQGADKPPVGVFIIERETGWLKVTQPLD REAIAKYILYSHAVSSNGEAVEDPMEIVITVTDQNDNRPEFTQEVFEGSVAEGAVPGTSVMKVSATDA DDDVNTYNAAIAYTIVSQDPELPHKNMFTVNRDTGVISVLTSGLDRESYPTYTLVVQAADLQGEGLST TAKAVITVKDINDNAPVFNPS

>DM\_train1288

HGIRMTRISREMMKELLSVYFIMGSNNTKADPVTVVQKALKGGATLYQFREKGGDALTGEARIKFAEK AQAACREAGVPFIVNDDVELALNLKADGIHIGQEDANAKEVRAAIGDMILGVAAHTMSEVKQAEED GADYVGLGPIYPTETKKDTRAVQGVSLIEAVRRQGISIPIVGIGGITIDNAAPVIQAGADGVSMISAISQ AEDPESAARKFREEIOTYKTGR

# >DM\_train1289

LTGPLMLDTAPNAFDDQYEGCVNKMEEKAPLLLQEDFNMNAKLKVAWEEAKKRWNNIKPSRSYPK GFNDFHGTALVAYTGSIAVDFNRAVREFKENPGQFHYKAFHYYLTRALQLLSNGDCHSVYRGTKTRF HYTGAGSVRFGQFTSSSLSKKVAQSQEFFSDHGTLFIIKTCLGVYIKEFSFRPDQEEVLIPGYEVYQKVRT QGYNEIFLDSPKRKKSNYNCLYS

## >DM train1290

WVPHELTENQKNRRFEVSSSLILRNHNEPFLDRIVTCDEKWILYDNRRRSAQWLDQEEAPKHFPKPIL HPKKVMVTIWWSAAGLIHYSFLNPGETITSEKYAQEIDEMNQKLQRLQLALVNRKGPILLHDNARPH VAQPTLQKLNELGYEVLPHPPYSPDLLPTNYHVFKHLNNFLQGKRFHNQQDAENAFQEFVESQSTD FYATGINQLISRWQKCVDCNGSYFD

# >DM train1291

GMAEDQTVLAIDIGGSHVKIGLSTDGEERKVESGKTMTGPEMVAAVTAMAKDMTYDVIAMGYPGPV VHNKPLREPVNLGEGWVGYDYEGAFGRPVRIVNDALMQAIGSYNGGRMLFLGLGTGLGAAMIVEN VAQPMEIAHLPYRKGKTYEHYVSEAYREKKGNAKWQKRVQDVVERLSAALEPDEVVIGGGNVERLE NLPPKCRRGDNAMAFEGGFRLWKNADLIV

# >DM\_train1292

MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQLRPSLITGIMKDSGNKPPGLLPRKGLYMAN DLKLLRHHLQIPIHFPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRELWMRVWSRNEDITEPQ SILAAAEKAGMSAEQAQGLLEKIATPKVKNQLKETTEAACRYGAFGLPITVAHVDGQTHMLFGSDRM ELLAHLLGEKWMGPIPPAVNARL

>DM\_train1293

MLSVAGHRFASLATTPVLRMGLARCFSSVTGPFQCPPLPYVKNALEPHMSAETLTYHHDKHHQTYV DTLNSIAAENSTIASKTLEQIIKTETGKPFNQAAQVYNHTFFFNNLAPNGGGEPTGKIAELITRDFGSFEK FKEDFSAAAVGHFGSGWVWLIADDGKLKIVQGHDAGNPIRESKTPLMNIDVWEHAYYIDYRNARAQ YVKNYWNLVNWDFVNDNVAKAGI

#### >DM\_train1294

MSSGAGSDATGAGGVHAAGSGDRAVAAAVERAKATAARNIPAFDDLPVPADTANLREGADLNNA LLALLPLVGVWRGEGEGRGPDGDYRFGQQIVVSHDGGDYLNWESRSWRLTATGDYQEPGLREAGF WRFVADPYDPSESQAIELLLAHSAGYVELFYGRPRTQSSWELVTDALARSRSGVLVGGAKRLYGIVEG GDLAYVEERVDADGGLVPHLSARLSRFVG

#### >DM train1295

KSAVTAQSILEKADEIRFPQDSFQVNVAIRTAAPDHAEDLYRYQVLSKGNENSIVMITEPASERGQAIL MKGRDLWVFMPSVSQPIRLSLSQRLTGQVANGDIARANFTGDYHPQLLRNESIDDEDYYVLELTGID RSVTYQKVLLWVNQSNFRPYKAEFYSVSGRLLKTSRYENFDNILGEMRPTRIIMEDALKSGEVSVLDYS DMKLRDLPDKIFTKDYLKRLE

# >DM\_train1296

MISHSELRKLFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKAALTERLALI QPSREQVQRLIAEQPPHLTPGIRELVSRLQERNVQVFLISGGFRSIVEHVASKLNIPATNVFANRLKFYF NGEYAGFDETQPTAESGGKGKVIKLLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVKD NAKWYITDFVELLGELEE

SKRYFVTGTDTEVGKTVASCALLQAAKAAGYRTAGYKPVASGSEKTPEGLRNSDALALQRNSSLQLD YATVNPYTFAEPTSPHIISAQEGRPIESLVMSAGLRALEQQADWVLVEGAGGWFTPLSDTFTFADWV TQEQLPVILVVGVKLGCINHAMLTAQVIQHAGLTLAGWVANDVTPPGKRHAEYMTTLTRMIPAPLLG EIPWLAENPENAATGKYINLALL

MADPESPWSQIGRKIKLEGLSDVASISTKLQNTLIQYHSIEEDEWRVAKKAKDVTVWRKPSEEFNGYLY KAQGVMDDVVNNVIDHIRPGPWRLDWDRLMTSLDVLEHFEENCCVMRYTTAGQLLNIISPREFVDF SYTVGYEEGLLSCGVSVEWSETRPEFVRGYNHPCGWFCVPLKDSPSQSLLTGYIQTDLRGMIPQSAVD TAMASTLANFYSDLRKGLRKA

GSRTVDLELELQIELLRETKRKYESVLQLGRALTAHLYSLLQTQHALGDAFADLSQKSPELQEEFGYNAE TQKLLCKNGETLLGAVNFFVSSINTLVTKTMEDTLMTVKQYEAARLEYDAYRTDLEELSLGPRDAGTR GRLESAQATFQAHRDKYEKLRGDVAIKLKFLEENKIKVMHKQLLLFHNAVSAYFAGNQKQLEQTLQQ FNIKLRPPGAEKPSWLEEQ

GDNDAIYYPVGDVDIERGGPALEVGEEDVLVARSFNEEDYVLDTIAQYPNDPTLGKLTFMIDLKNQQK DQNVADFNGVGKSKLTMSLGYKDGNYPSESQVPIYTSQDVTAKYAVKLRLKGELLVSGDEWMIDYV YAQLASLFQPYPPANFPEVFMCKGGMKLGTFDSFRRTCTFDITYDRSDLSFSQLYFNLFINLAGQKRE NRVRLRIDKESYFELYEQSEEM

SNAMSKRVLMVVTNHTTITDDHKTGLWLEEFAVPYLVFQEKGYDVKVASIQGGEVPLDPRSINEKDP SWAEAEAALKHTARLSKDDAHGFDAIFLPGGHGTMFDFPDNETLQYVLQQFAEDGRIIAAVCHGPS GLVNATYKDGTPIVKGKTVTSFTDEEEREVGLDVHMPFLLESTLRLRGANFVRGGKWTDFSVRDGNLI TGQNPQSSRSTAEKVVAALEERE

AIAENSSKEDYKIQSFDLETQKLLKTALKDPGSVDLEKVSSVIVDQSLKDQVFSREAGRICYTIVQAEAK QTNGSVFRRNLLNRLQQEFKAREETRKRSTQEWVCLVSFICNIFDYLKVNNMPMVALVHPVYDCLFR LAQSDALKNEEEVDCLVLQLHRIGDQLEKMNVQLMDELFNLLRDGFLLQEDLSSMGRLLLLEILEFRA GGWKLSDTAQKYYYSEVTD

SWNKKNEEKEDFGIIVILWKQVTVKEDGKVPLEPFLTAAKEVLRVVDAFGSGFRIVKNDIAGNIKKLYRA

NQTVHAETLQELIIAENSPDGLATVALLWLKRAFQFIASFLRRLVVTDKSLEQCVTEAYNCTLRPCHSA VIQKVFWGGVKLAPSRERFYRKLHPDLNIAKAKIEEFLIELHDPLCCIVQFFFQRELEDQCWGDEVYQR KDSSEWLKVSCEQDSV

QPLGGESICSARAPAKYSITFTGKWSQTAFPKQYPLFRPPAQWSSLLGAAHSSDYSMWRKNQYVSN GLRDFAERGEAWALMKEIEAAGEALQSVHEVFSAPAVPSGTGQTSAELEVQRRHSLVSFVVRIVPSPD WFVGVDSLDLCDGDRWREQAALDLYPYDAGTDSGFTFSSPNFATIPQDTVTEITSSSPSHPANSFYYP RLKALPPIARVTLLRLROSPR

APSCPQNVNISGGTFTLSHGWAPGSLLTYSCPQGLYPSPASRLCKSSGQWQTPGATRSLSKAVCKPV RCPAPVSFENGIYTPRLGSYPVGGNVSFECEDGFILRGSPVRQCRPNGMWDGETAVCDNGAGHCP NPGISLGAVRTGFRFGHGDKVRYRCSSNLVLTGSSERECQGNGVWSGTEPICRQPYSYDFPEDVAPA LGTSFSHMLGATNPTQKTKESLGR

GMNDLKRLPYEPVKGLLPRPAVGTSERVITLPEPDRTSGMPLMGTLWLRKSTREFDQQPLPLKQLSELL WAAAGVNRSLGGGRTAPSPYGETVIDVYVALPAGLYRYDPVHHCLELKRAADLRSMTGYQDFVGM APLDLVFVANHGRMQEMPPKLRETFSAAAAGAMAENAYLYCASAGLGAVVRGWLNRRQLAEHMS LNEDEEPILSOTIGRAASHVTTTOA

SNAMYKEGACLYRNPLRSKSDVKDWRMEGGGQISFDDHSLHLSHVQDEAHFVFWCPETFPDGIIVT WDFSPIEQPGLCMLFFAAAGIRGEDLFDPSLRKRTGTYPEYHSGDINALHLSYFRRKYAEERAFRTCNL RKSRGFHLAAMGADPLPSPDDADSPYRMKLIKDKGYVHFSINGLPILEWMDDGSTYGPVLTKGKIGFR QMAPMKAVYRDFAVHQAVRR

GEQQKRKIVLDPSGSMNIYLVLDGSDSIGASNFTGAKKSLVNLIEKVASYGVKPRYGLVTYATYPKIWV KVSEADSSNADWVTKQLNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPEGWNRTRHVIILM TDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQHVFK VKDMENLEDVFYQMIDESQSLS

GMDRTLTHQPQEYAVSVSVGEVKLKGNLVIPNGATGIVLFAHGSGSSRYSPRNRYVAEVLQQAGLAT LLIDLLTQEEEEIDLRTRHLRFDIGLLASRLVGATDWLTHNPDTQHLKVGYFGASTGGGAALVAAAERP ETVQAVVSRGGRPDLAPSALPHVKAPTLLIVGGYDLPVIAMNEDALEQLQTSKRLVIIPRASHLFEEPG ALTAVAQLASEWFMHYLR

MAASITAITVENLEYPAVVTSPVTGKSYFLGGAGERGLTIEGNFIKFTAIGVYLEDIAVASLAAKWKGKSS EELLETLDFYRDIISGPFEKLIRGSKIRELSGPEFSRKVMENCVAHLKSVGTYGDAEAEAMQKFAEAFKPV NFPPGASVFYRQSPDGILGLSFSPDTSIPEKEAALIENKAVSSAVLETMIGEHAVSPDLKRCLAARLPALL NEGAFKIGN

GELFSNQIIWFVDDTNVYRVTIHKTFEGNLTTKPINGAIFIFNPRTGQLFLKIIHTSVWAGQKRLGQLAK WKTAEEVAALIRSLPVEEQPKQIIVTRKGMLDPLEVHLLDFPNIVIKGSELQLPFQACLKVEKFGDLILKA TEPQMVLFNLYDDWLKTISSYTAFSRLILILRALHVNNDRAKVILKPDKTTITEPHHIWPTLTDEEWIKVE VOLKDLILAD

GMPIDTPTDASPADGSASDTVFFGIMSGLELGTFVPGQRLVETDLVAHFGVGRNSVREALQRLAAEGI VDLQRHRGAVIRRLSLQETLDVLDVAERMTGLLARAATRGSGNQPQVQALRASVQALVAAEKAQD GETFSNARRHFYRTLLEMGDNRELRRLFPTIHMPIVHAQHRLASLRQMRLDDYRRIATAVLAGEPDAA EAAGAAHVKNVRGAILDRQPA

MEIPPTHYAASRAASVAENCINYQQGTPHKLFLVQTVQQASKEDIPGRGHKYHLKFSVEEIIQKQVTV NCTAEVLYPQMGQGSAPEVNFTFEGEIGKNPDEEDNTFYQSLMSLKRPLEAQDIPDNFGNVSPQMK PVQHLAWVACGYVMWQNSTEDTWYKMLKIQTVKQVQRNDDFIELDYTILLHDIASQEIIPWQMQV LWHPQYGTKVKHNSRLPKEGQAE

METQDYAFQPGLTVGELLKSSQKDWQAAINHRFVKELFAGTIENKVLKDYLIQDYHFFDAFLSMLGA

CVAHADKLESKLRFAKQLGFLEADEDGYFQKAFKELKVAENDYLEVTLHPVTKAFQDLMYSAVASSDY AHLLVMLVIAEGLYLDWGSKDLALPEVYIHSEWINLHRGPFFAEWVQFLVDELNRVGKNREDLTELQ QRWNQAVALELAFFDIGYDV

SVLVLDDRIVDAATKDLYVNGFQEEIQYQNPTPENLQHMFHQGIEILDSARMINVTHLALWKPSSFKL GNPVDFALDDNYDTFWQSDGGQPHQLDIMFSKRMDICVMAIFFSMIADESYAPSLVKVYAGHSPSD ARFYKMLEVRNVNGWVALRFLDNREDDQLLKCQFIRLLFPVNHENGKDTHLRGIRLYVPSNEPHQDT HEWAQTLPETNNVFQDAILR

GAMEKFKTLLYDIPIECMEVSEEIISYAKLQLGKKLNDSIYVSLTDHINFAIQRNQKGLDIKNALLWETKR LYKDEFAIGKEALVMVKNKTGVSLPEDEAGFIALHIVNAELNEEMPNIINITKVMQEILSIVKYHFKIEFNE ESLHYYRFVTHLKFFAQRLFNGTHMESQDDFLLDTVKEKYHRAYECTKKIQTYIEREYEHKLTSDELLYL TIHIERVV

SLNCFENNYYNLRHPKIEDLRDLIALETLCWSENLQVDNEEIYRRIFKIPQGQFILELEDKIVGAIYSQRID NPQLLDNKTCTQVPLLHTESGVVVQLLAVNILPELQNQGLGDRLLEFMLQYCAQISGVEKVVAVTLC RNYPDYSPMPMAEYIHQKNESGLLVDPLLRFHQIHGAKIEKLLPGYRPKDWENQTCGVLVSYDIQHR ORFDGATVEKNROTK

SLKNEELYHQSYDCVCVMFASIPDFKEFYTESDVNKEGLECLRLLNEIIADFDDLLSKPKFSGVEKIKTIGS TYMAATGLSAIPSQEHAQEPERQYMHIGTMVEFAYALVGKLDAINKHSFNDFKLRVGINHGPVIAGVI GAQKPQYDIWGNTVNVASRMDSTGVLDKIQVTEETSLILQTLGYTCTCRGIINVKGKGDLKTYFVNTE MSRSLSQSNLAS

GVLPVEKCNLEDSACMTSAFQQALPTFVAGLPDHGVEVMDVLDLDDFAFDLSGLQFTLKEGKLKGLK GAVIDNVKWDLKKKNIEVDFHLDATVKGHYTAGGRILILPITGDGQMKLKLKNIHIHLVVSYEMEKDAE GVDHVIFKKYTVTFDVKDNAQFGLTNLFNGNKELSDTMLTFLNQNWKQVSEEFGKPVMEAAAKKIFK NIKHFLAKVPIAEIANV

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MRGSHHHHHHPEYDYIRDGNAIYERSFAIIRAEADLSRFSEEEADLAVRMVHACGSVEATRQFVFSPD FVSSARAALKAGAPILCDAEMVAHGVTRARLPAGNEVICTLRDPRTPALAAEIGNTRSAAALKLWSER LAGSVVAIGNAPTALFFLLEMLRDGAPKPAAILGMPVGFVGAAESKDALAENSYGVPFAIVRGRLGGS AMTAAALNSLARPGL

KGHLTRLGLEFFDQPAVPLARAFLGQVLVRRLPNGTELRGRIVETEAYLGPEDEAAHSRGGRQTPRNR GMFMKPGTLYVYIIYGMYFCMNISSQGDGACVLLRALEPLEGLETMRQLRSTLRKGTASRVLKDRELC SGPSKLCQALAINKSFDQRDLAQDEAVWLERGPLEPSEPAVVAAARVGVGHAGEWARKPLRFYVRG SPWVSVVDRVAEQDTQA

ETMSGPLHIGLIPTVGPYLLPHIIPMLHQTFPKLEMYLHEAQTHQLLAQLDSGKLDAVILALVKESEAFIE VPLFDEPMLLAIYEDHPWANREAVPMADLAGEKLLMLEDGHSLRDQAMGFCFEAGADEDTHFRATS LETLRNMVAAGSGITLLPALAVPPERKRDGVVYLPAIKPEPRRTIGLVYRPGSPLRSRYEQLAEAIRARM DGHFDKVLKQAV

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HTPVRTVMNTIQQLMMILNSASDQPSENLISYFNNCTVNPKESILKRVKDIGYIFKEKFAKAVGQGCV EIGSQRYKLGVRLYYRVMESMLKSEEERLSIQNFSKLLNDNIFHMSLLACALEVVMATYSRSTSQNLDS GTDLSFPWILNVLNLKAFDFYKVIESFIKAEGNLTREMIKHLERCEHRIMESLAWLSDSPLFDLIKQSKDR EGPTDHLESA

MKEVAKPLQERFFIPHEIKVMGRWSTEDVEVKDPSLKPYINLEPRLLPHTHGRHAKKHFGKANVHIVER LINKVMRSGGSHYKVAGHFMRREHRSLNSKKVRAYEVVKEAFKIIEKRTGKNPIQVLVWAIENAAPRE DTTSVMFGGIRYHVAVDISPLRRLDVALRNIALGASAKCYRTKMSFAEALAEEIILAANKDPKSYAYSKK LEIERIAESSR

QNPADSPHIGKVFFSTNQGDFVCSANIVASANQSTVATAGHCLHDGNGGQFARNFVFAPAYDYGE SEHGVWAAEELVTSAEWANRGDFEHDYAFAVLETKGGTTVQQQVGTASPIAFNQPRGQYYSAYGY PAAAPFNGQELHSCHGTATNDPMGSSTQGIPCNMTGGSSGGPWFLGNGTGGAQNSTNSYGYTFL PNVMFGPYFGSGAQQNYNYASTTN

EKVKKIVLIGASGFVGSALLNEALNRGFEVTAVVRHPEKIKIENEHLKVKKADVSSLDEVCEVCKGADAV ISAFNPGWNNPDIYDETIKVYLTIIDGVKKAGVNRFLMVGGAGSLFIAPGLRLMDSGEVPENILPGVKA LGEFYLNFLMKEKEIDWVFFSPAADMRPGVRTGRYRLGKDDMIVDIVGNSHISVEDYAAAMIDELEHP KHHQERFTIGY

MGSDKIHHHHHHMNIFEAIENRHSVRDFLERKMPERVKDDIENLLVKFITKKLDWKINLSSFPSYIYAK AEKHFDELVEYGFQGEQIVLFLTAQGFGTCWMARSPHPDVPYIIVFGYPRTRNFTRKRRPITSFLENDL EELPPEIVKIVEMTILAPSALNRQPWKIKYTGGELCISSERPVDLGIALSHAYLTAREIFKREPVIQKRGEDT YCLILNP

SLRGGHAGTTYIFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIH QGKIGVKFNVGTDDIAIEESNAIINDGKYHVVRFTRSGGNATLQVDSWPVIERYPAGNNDNERLAIAR QRIPYRLGRVVDEWLLDKGRQLTIFNSQATIIIGGKEQGQPFQGQLSGLYYNGLKVLNMAAENDANI AIVGNVRLVGEVPSS

MISLKRVAALLCVAGLGMSAANAQTCLTSSQTGTNNGFYYSFWKDSPGTVNFCLQSGGRYTSNWS GINNWVGGKGWQTGSRRNITYSGSFNSPGNGYLALYGWTTNPLVEYYVVDSWGSWRPPGSDGTFL GTVNSDGGTYDIYRAQRVNAPSIIGNATFYQYWSVRQSKRVGGTITTGNHFDAWASVGLNLGTHNY OIMATEGYOSSGSSDITVSEGG

STLEIAGLVRKNLVQFGVGEKNGSVRWVMNALGVKDDWLLVPSHAYKFEKDYEMMEFYFNRGGTY YSISAGNVVIQSLDVGAQDVVLMKVPTIPKFRDITQHFIKKGDVPRALNRLATLVTTVNGTPMLISEGP LKMEEKATYVHKKNDGTTVDLTVDQAWRGKGEGLPGMCGGALVSSNQSIQNAILGIHVAGGNSILV AKLVTQEMFQNIDKKIE

>DM\_train1345

SRLDKSKVINSALELLNEVGIEGLTTRKLAQKLGVEQPTLYWHVKNKRALLDALAVEILARHHDYSLPA AGESWQSFLRNNAMSFRRALLRYRDGAKVHLGTRPDEKQYDTVETQLRFMTENGFSLRDGLYAISAV SHFTLGAVLEQQEHTAALTDRPAAPDENLPPLLREALQIMDSDDGEQAFLHGLESLIRGFEVQLTALL QIVGGDKLIIPFC

YVEFAQDFDFFYFVQQWPASYCDTRRSCCYPTTGKPDEDFSIHGLWPNYENGKWPQNCDRESSLDE

SEISDLISTMEKNWPSLACPSSDGVRFWSHEWLKHGTCSALGERAYFQAALDFRKKSNLLENLKNAEI TPRNGEHYTLESIKKAIEEGVGHSPYIECNVDTQGNHQIYQVYLCVDKTATDFIDCPIFPHGRGCGSKIE FPPFSSESDHDEF

>DM train1348

MEQPYVYAYPQGSGPSGAPTPQAGGVVVDPKYCAPYPIDMAIVRKMMSLTDGNFVITDVNGNLLF KVKEPVFGLHDKRVLLDGSGTPVVTLREKMVSMHDRWQVFRGGSTDQRDLLYTVKRSSMLQLKTKL DVFLGHNKDEKRCDFRVKGSWLERSCVVYAGESDAIVAQMHRKHTVQSVFLGKDNFSVTVYPNVD YAFIASLVVILDDVNREDRAA

>DM\_train1349

GEINGPESVLVNTYQWIIRNWETVKIQWSQNPTMLYNKMEFEPFQSLVPKAIRGQYSGFVRTLFQQ MRDVLGTFDTTQIIKLLPFAAAPPKQSRMQFSSLTVNVRGSGMRILVRGNSPVFNYNKTTKRLTILGKD AGTLIEDPDESTSGVESAVLRGFLILGKEDRRYGPALSINELSNLAKGEKANVLIGQGDVVLVMKRKRD SSILTDSQTATKR

MPYSDAKAMLDEVAKIRELGVQRVTRIENLENAKKLWDNANSMLEKGNISGYLKAANELHKFMKEK NLKEDDLRPELSDKTISPKGYAILQSLWGAASDYSRAAATLTESTVEPGLVSAVNKMSAFFMDCKLSP NERATPDPDFKVGKSKILVGIMQFIKDVADPTSKIWMHNTKALMNHKIAAIQKLERSNNVNDETLESV LSSKGENLSEYLSYK

RSIIGGKHGDRDVRILYQVGDSEEDLPVCAPNAVCSKIDLYETPWIERQCRCPDGRTCPSSLGVEDGH TIADKTRHYKMCQPVHKLPVCKHFRDYTWTLTTAAELNVTEQIVHCRCPRNSVTYLTKREPIGNDSPG YRYLFACSPLTRLRCQRKQPCKLFTVRKRQEFLDEVNINSLCQCPKGHRCPSHHTQSGVIAGESFLED NIOTYSGYCMAND

EVTIEAVPPQVAEDNNVLLLVHNLPLALGAFAWYKGNTTAIDKEIARFVPNSNMNFTGQAYSGREIIY SNGSLLFQMITMKDMGVYTLDMTDENYRRTQATVRFHVHQPVTQPFLQVTNTTVKELDSVTLTCLS NDIGANIQWLFNSQSLQLTERMTLSQNNSILRIDPIKREDAGEYQCEISNPVSVRRSNSIKLDIIFDPSRL VPRGSHHHHHH

VVKQDLSDNQYIQKKPNEITSNELLLPLPNDKLLGDPKAPILMIEYASLTCYHCSLFHRNVFPKIKEKYID TGKMLYIFRHFPLDYRGLKAAMLSHCYEKQEDYFNFNKAVFNSIDSWNYYNLSDLTLLQRIAALSNLK QDAFNQCINDKKIMDKIVNDKSLAINKLGITAVPIFFIKLNDDKSYIEHNKVKHGGYKELKYFTNVIDKL YGKAIVK

GHMAMEKPVLWYIADPMCSWCWGFAPVIENIRQEYSAFLTVKIMPGGLRPGTNTPLLPEKRAQILHH WHSVHITTGQPFTFENALPEGFIYDTEPACRGVVSVSLIEPEKVFPFFAAIQRAFYVGQEDVAQLAILKK LAVDLGIPESRFTPVFQSDEAKQRTLAGFQRVAQWGISGFPALVVESGTDRYLITTGYRPIEALRQLLDT WLQQHGVGS

VSVGTHPTFENSPSGTVLTSPPDGSAVDRATDAARRVVDALLRTDRGNANLERVAEELNSIAGHLEE HAPAVAERLIDMWNGEGVTRHDPVTGPENALAPPVVLEGLSDGSVRGTVTLTIPYQGPPGHVHGGV SALLLDHVLGVANAWGGKAGMTAQLSTRYHRPTPLFEPLTLTGKLMSVDGRKITTAGDIRTADGQVC VSVEGLFVDKTVPRPR

MAKRILCFGDSLTWGWVPVEDGAPTERFAPDVRWTGVLAQQLGADFEVIEEGLSARTTNIDDPTDP RLNGASYLPSCLATHLPLDLVIIMLGTNDTKAYFRRTPLDIALGMSVLVTQVLTSAGGVGTTYPAPKVL VVSPPPLAPMPHPWFQLIFEGGEQKTTELARVYSALASFMKVPFFDAGSVISTDGVDGIHFTEANNRD LGVALAEOVRSLL

>DM\_train1358

MDQENERNISRLWRAFRTVKEMVKDRGYFITQEEVELPLEDFKAKYCDSMGRPQRKMMSFQANPTE ESISKFPDMGSLWVEFCDEPSVGVKTMKTFVIHIQEKNFQTGIFVYQNNITPSAMKLVPSIPPATIETFN EAALVVNITHHELVPKHIRLSSDEKRELLKRYRLKESQLPRIQRADPVALYLGLKRGEVVKIIRKSETSGRY ASYRICM

>DM train1359

MSSSEEVSWISWFCGLRGNEFFCEVDEDYIQDKFNLTGLNEQVPHYRQALDMILDLEPDEELEDNPN

QSDLIEQAAEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDIPGEAMVKL YCPKCMDVYTPKSSRHHHTDGAYFGTGFPHMLFMVHPEYRPKRPANQFVPRLYGFKIHPMAYQLQL QAASNFKSPVKTIR

>DM train1360

MKTVLLTGFDPFGGESINPAWEVAKSLHEKTIGEYKIISKQVPTVFHKSISVLKEYIEELAPEFIICIGQAGG RPDITIERVAINIDDARIADNEGNQPVDVPVVEEGPAAYWSTLPMKAIVKKLQEEGIPASVSQTAGTFV CNHLFYGLMHELEKHDTKMKGGFIHIPFLPEQASNYPGQPSMSLSTIRKGIELAVEVTTTVEVDIVEVG GTTH

>DM\_train1361

PQLEDFPALIKQASLDALFKCGKDAEALKEVFTNSNNVAGKKAIMEFAGLFRSALNATSDSPEAKTLL MKVGAEYTAQIIKDGLKEKSAFGPWLPETKKAEAKLENLEKQLLDIIKNNTGGELSKLSTNLVMQEVMP YIASCIEHNFGCTLDPLTRSNLTHLVDKAAAKAVEALDMCHQKLTQEQGTSVGREARHLEMQTLIPLL LRNVFAQIPA

>DM train1362

GHMVPQTGRAARATRESGRQTRDALFTAATELFLEHGEGVPITQICAAAGAHPNQVTYYYGSKERLF VEVACAAVLRAGKRAEDDAATAETVGDYTEKLVGSLLGPGAPSVELFTSAMLMTGRRSELRDLITDTL RTLHSSGEVALIRTLMRTGWQLRAGIDVESKAFWSAIFGLVIQKTATGESFGYSLEEAVAVIFANLQIPE TVRNTSIDGS

>DM\_train1363

GSGYREVEYWDQRYQGAADSAPYDWFGDFSSFRALLEPELRPEDRILVLGCGNSALSYELFLGGFPN VTSVDYSSVVVAAMQACYAHVPQLRWETMDVRKLDFPSASFDVVLEKGTLDALLAGERDPWTVSSE GVHTVDQVLSEVSRVLVPGGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGG KLSVAQLALGAQILSP

>DM\_train1364

MEIKGESMQKSKFRRICVFCGSSQGKKSSYQDAAVDLGNELVSRNIDLVYGGGSIGLMGLVSQAVHD GGRHVIGIIPKTLMPRELTGETVGEVRAVADMHQRKAEMAKHSDAFIALPGGYGTLEELLEVITWAQL GIHDKPVGLLNVDGYYNSLLSFIDKAVEEGFISPTAREIIVSAPTAKELVKKLEEYAPCHERVATKLCWEM ERIGYSSEE

IQHATASLIQTNTDQELLVVDVTPSFASLWLVPNINDFHQRHPNIRVKILTGDGAVKNIHGESDLHVR CLPLSTHYEYSQLLCEETLLLIGNTNLPKLSDNQAISHYPFIPQTTRPQLWEQFKQENDLECPITYHSVG FEHFYLACEAVRMEKGLALLPDFMAQFSILRGDIQHIGNLKLHSGYGYYVVIPNFRLTSRKVALFHDWL KDKLTHHT

>DM train1366

>DM\_train1365

MNKDQSKIPQATAKRLPLYYRFLKNLHASGKQRVSSAELSDAVKVDSATIRRDFSYFGALGKKGYGYN VDYLLSFFRKTLDQDEMTDVILIGVGNLGTAFLHYNFTKNNNTKISMAFDINESKIGTEVGGVPVYNLD DLEQHVKDESVAILTVPAVAAQSITDRLVALGIKGILNFTPARLNVPEHIRIHHIDLAVELQSLVYFLKHY SVLEEIE

>DM\_train1367

MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDTYYDTPELSLMQADHWLRRREDSGWELKCP GAAGVLGPHTEYKELTAEPTIVAQLCKVLRADGLGAGDVAAVLGPLGLQEVASFVTKRSAWKLVLLG ADEEEPQLRVDLDTADFGYAVGEVEALVHEEAEVPTALEKIHRLSSMLGVPAQETAPAKLIVYLQRFRP ODYORLLEVNSS

>DM\_train1368

MGSDKIHHHHHHHMPKVEIAPSEIKIPDNVLKAKLGFGGAEEIPEEFRKTVNRAYEELLDAAKPVVLWR DFEVDGSLSFDDMRLTGELATKHLSGSKIITVFLATLGKKVDEKIEEYFRKGEDLLAFFIDGIASEMVEYAL RKVDAELRMKRSNLEGSFRISPGYGDLPLSLNKKIAEIFKEEVDVNVIEDSYVLVPRKTITAFVGWREKNE KOT

>DM\_train1369

HGTELPSPPSVWFEAEFFHHILHWTPIPQQSESTCYEVALLRYGIESWNSISQCSQTLSYDLTAVTLDLY HSNGYRARVRAVDGSRHSQWTVTNTRFSVDEVTLTVGSVNLEIHNGFILGKIQLPRPKMAPAQDTYE SIFSHFREYEIAIRKVPGQFTFTHKKVKHEQFSLLTSGEVGEFCVQVKPSVASRSNKGMWSKEECISLTR QYFTVTN

>DM train1370

MLIAIEGVDGAGKRTLVEKLSGAFRAAGRSVATLAFPRYGQSVAADIAAEALHGEHGDLASSVYAMA

TLFALDRAGAVHTIQGLCRGYDVVILDRYVASNAAYSAARLHENAAGKAAAWVQRIEFARLGLPKPD WQVLLAVSAELAGERSRGRAQRDPGRARDNYERDAELQQRTGAVYAELAAQGWGGRWLVVGAD VDPGRLAATLAPPDVPS

>DM train1371

SNAMAVQLLENWLLKEQEKIQTKYRHLNHISVVEPNILFIGDSIVEYYPLQELFGTSKTIVNRGIRGYQT GLLLENLDAHLYGGAVDKIFLLIGTNDIGKDVPVNEALNNLEAIIQSVARDYPLTEIKLLSILPVNEREEY QQAVYIRSNEKIQNWNQAYQELASAYMQVEFVPVFDCLTDQAGQLKKEYTTDGLHLSIAGYQALSK SLKDYLY

>DM\_train1372

GMSIVGNVENLINGVGELWNKYVKHEFILKMRDGSLPLDIFRYYLIQDGKYVEDMLRALLIASSKGPID KVTKILNLVFSSRDKGLETHGKLYSKLDISRDVIVKTGYNLINYAYTRHLYYYANLDWNKFLVAWTPCM FGYSIVGDYVIDSPNEVYKTWASFYASTEYKKRIEAILYALDEVSITEDLLNIFINSVRFEIGFWDASLRKD PTVY

>DM train1373

GSHMKITYPLPPNLPEQLPLLTNCQLEDEAILENHLYQQIDLPNQEVRNLVFRDAVFDHLSLANGQFA SFDCSNVRFEACDFSNVEWLSGSFHRVTFLRCNLTGTNFADSYLKDCLFEDCKADYASFRFANFNLV HFNQTRLVESEFFEVTWKKLLLEACDLTESNWLNTSLKGLDFSQNTFERLTFSPNYLSGLKVTPEQAIYL ASALGLVIT

>DM\_train1374

NSNMGSDSGTMGSDSDEENVAARASPEPELQLRPYQMEVAQPALEGKNIIICLPTGSGKTRVAVYIA KDHLDKKKKASEPGKVIVLVNKVLLVEQLFRKEFQPFLKKWYRVIGLSGDTQLKISFPEVVKSCDIIISTA QILENSLLNLENGEDAGVQLSDFSLIIIDECHHTNKEAVYNNIMRHYLMQKLKNNRLKKENKPVIPLPQ ILGLTAS

TTSAGESADPVTTTVENYGGETQIQRRQHTDVSFIMDRFVKVTPQNQINILDLMQVPSHTLVGALLR ASTYYFSDLEIAVKHEGDLTWVPNGAPEKALDNTTNPTAYHKAPLTRLALPYTAPHRVLATVYNGECR YSRNAVPNLRGDLQVLAQKVARTLPTSFNYGAIKATRVTELLYRMKRAETYCPRPLLAIHPTEARHKQ KIVAPVKQTL

>DM\_train1377

MEVEKEFITDEAKELLSKDKLIQQAYNEVKTSICSPIWPATSKTFTINNTEKNCNGVVPIKELCYTLLEDT YNWYREKPLDILKLEKKKGGPIDVYKEFIENSELKRVGMEFETGNISSAHRSMNKLLLGLKHGEIDLAIIL MPIKQLAYYLTDRVTNFEELEPYFELTEGQPFIFIGFNAEAYNSNVPLIPKGSDGMSKRSIKKWKDKVEN K

>DM train1378

ADGKSTRYWDCCKPSCGWAKKAPVNQPVFSCNANFQRLTDFDAKSGCEPGGVAYSCADQTPWA VNDDFAFGFAATSIAGSNEAGWCCACYELTFTSGPVAGKKMVVQSTSTGGDLGSNHFDLNIPGGGV GIFDGCTPQFGGLPGQRYGGISSRNECDRFPDALKPGCYWRFDWFKNADNPSFSFRQVQCPAELVA RTGCRRNDDGNFPAVQIP

>DM\_train1379

MFTGIVQGTAKLVSIDEKPNFRTHVVELPDHMLDGLETGASVAHNGCCLTVTEINGNHVSFDLMKET LRITNLGDLKVGDWVNVERAAKFSDEIGGHLMSGHIMTTAEVAKILTSENNRQIWFKVQDSQLMKYI LYKGFIGIDGISLTVGEVTPTRFCVHLIPETLERTTLGKKKLGARVNIEIDPQTQAVVDTVERVLAARENA MNOPGTEA

>DM train1380

MERKISRIHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQEADDMAMEKGKYVGE LRKALLSGAGPADVYTFNFSKESAYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELIAYALDTIAENQAK NEHLQKENERLLRDWNDVQGRFEKAVSAKEALETDLYKRFILVLNEKKTKIRSLHNKLLNAAQEREKDI KOEG

>DM\_train1381

VSSQKTSSLPKYTPKVNSSINNYIRKKNMKAPRIEEDYTSYFPKYGYRNGVGRPEGIVVHDTANDNSTI DGEIAFMKRNYTNAFVHAFVDGNRIIETAPTDYLSWGAGPYGNQRFINVEIVHTHDYDSFARSMNN YADYAATQLQYYNLKPDSAENDGRGTVWTHAAISNFLGGTDHADPHQYLRSHNYSYAELYDLIYEK YLIKTKQVAPWG

>DM train1382

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PSTVERSIKSWDHPAIIGFTVHSCAGYESVERALSATDKHVFVVVKLTSMEGSLEDYMDRIEKLNKLGC DFVLPGPWAKALREKIKGKILVPGIRMEVKADDQKDVVTLEEMKGIANFAVLGREIYLSENPREKIKRIKE MRL

>DM train1384

GSECSTQLDIVIVLDGSNSIYPWDSVTAFLNDLLKRMDIGPKQTQVGIVQYGENVTHEFNLNKYSSTEE VLVAAKKIVQRGRQTMTALGTDTARKEAFTEARGARRGVKKVMVIVTDGESHDNHRLKKVIQDCE DENIQRFSIAILGSYNRGNLSTEKFVEEIKSIASEPTEKHFFNVSDELALVTIVKTLGERIFALEATAVDSSG RIVTD

>DM\_train1385

KLNMLKPDSDLCLKFAMLCTLNDKCDRLRKAYGEACSGPHCQRHVCLRQLLTFFEKAAEPHAQGLLL CPCAPNDRGCGERRRNTIAPNCALPPVAPNCLELRRLCFSDPLCRSRLVDFQTHCHPMDILGTCATE QSRCLRAYLGLIGTAMTPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHNPCLTEAIAAKMRF HSQLFSQDWPHP

>DM\_train1386

SLIGFLSDRQGFEKQYHDIDLSSFGIREGISEIIASTGFEHPNAAPIGIVMKGERPFVRLFKGSHTWENVL KEKCLASNVVYDPILFVRSTFSDLVPSEFEYVDAGEFKFPVLKEAIAWVVFECINLRNTDQSLVADLVPL NAGFNERNIKELPVPNRGFNAVLEATVHATRYQLTGEEKYLELIRHYESLASKCGGDAEKKAMKLIYEA I GI

>DM\_train1387

ASMTTPCITILSGHFPKETIYARKTKELVEEYCSIHGYNFYYEESEPLETEEHALHFRRSWIIQQAAEKFPST EWFLWLDSDVYVNPKNKNKPITSFIDLSDPNILYHTFHEAPWGSYPINTGVKFVHKDALEIEKIVWSLR NEAPWNTFPYEQKTVYEYVFPRIPGRYIVHDPYTLNCIVKAYPEHVKDALFVHMCGTSRAERDEHME MVAT

>DM\_train1388

GMSSDVQKGDNLETPGARDLLLQTASNIMREGDVVDISLSELSLRSGLNSALVKYYFGNKAGLLKALL DRDMENIVKSVDALLAKDDMSPEAKLRRHISKCIDTYYDYPYLNRLLMRLVRDSDEAEAKRIADQYLL PLHRAYNRFIGEGVKAGVFRPINPQLFYFTVTGAADRFFSARLVLKHCFDQDTLTEQLRDSYREHTVDF IMAGILAH

>DM\_train1390

KGSVYTAQSDVQVPENESIKLTCTYSGFSSPRVEWKFVQGSTTALVCYNSQITAPYADRVTFSSSGITF SSVTRKDNGEYTCMVSEEGGQNYGEVSIHLTVLVPPSKPTISVPSSVTIGNRAVLTCSEHDGSPPSEYS WFKDGISMLTADAKKTRAFMNSSFTIDPKSGDLIFDPVTAFDSGEYYCQAQNGYGTAMRSEAAHMD AVELNVGG

>DM train1391

MKPPSSIQTSEFDSSDEEPIEDEQTPIHISWLSLSRVNCSQFLGLCALPGCKFKDVRRNVQKDTEELKSC GIQDIFVFCTRGELSKYRVPNLLDLYQQCGIITHHHPIADGGTPDIASCCEIMEELTTCLKNYRKTLIHSY GGLGRSCLVAACLLLYLSDTISPEQAIDSLRDLRGSGAIQTIKQYNYLHEFRDKLAAHLSSRDSQSRSVS R

>DM\_train1392

MSGTEEAILGGRDSHPAAGGGSVLCFGQCQYTAEEYQAIQKALRQRLGPEYISSRMAGGGQKVCYIE GHRVINLANEMFGYNGWAHSITQQNVDFVDLNNGKFYVGVCAFVRVQLKDGSYHEDVGYGVSEG LKSKALSLEKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVE EARYNSCRPNM

>DM train1393

MVGGGGVKFIEMDIRDKEAYELAKEWFDEVVVSIKFNEEVDKEKLREARKEYGKVAILLSNPKPSLVRD TVQKFKSYLIYVESNDLRVIRYSIEKGVDAIISPWVNRKDPGIDHVLAKLMVKKNVALGFSLRPLLYSNP YERANLLRFMMKAWKLVEKYKVRRFLTSSAQEKWDVRYPRDLISLGVVIGMEIPQAKASISMYPEIILKR LKY

>DM\_train1394

SMQELQGLDYCKPTRLDLLLDMPPVSYDVQLLHSWNNNDRSLNVFVKEDDKLIFHRHPVAQSTDAI RGKVGYTRGLHVWQITWAMRQRGTHAVVGVATADAPLHSVGYTTLVGNNHESWGWDLGRNRLY HDGKNQPSKTYPAFLEPDETFIVPDSFLVALDMDDGTLSFIVDGQYMGVAFRGLKGKKLYPVVSAVW GHCEIRMRYLNGLDPE

>DM train1395

GMASSGTEHDAMRARLVDVAQAIVEERGGAGLTLSELAARAGISQANLSRYFETREDLMEAIADYWF

HPMVEIMEDVLASDLPPRRKMYEFFARRFVVMRRKWEADPVKLQTYIEVGNDYFEQVRSYIDLADHY LGEIIGEAMSDGAFSGLEVDETISLVNQMCAPYCALNTMTTFMERLSEDKLARIVDAVFDGLSAQDRG ARSLTGLRAA

>DM train1396

ESNQQIADFDKEKATLDEADIDERMKLAQAFNDSLNNVVSGDPWSEEMKKKGRAEYARMLEIHERM GHVEIPVIDVDLPVYAGTAEEVLQQGAGHLEGTSLPIGGNSTHAVITAHTGLPTAKMFTDLTKLKVGD KFYVHNIKEVMAYQVDQVKVIEPTNFDDLLIVPGHDYVTLLTCTPYMINTHRLLVRGHRIPYVAEVEEE FIAANKLSH

>DM\_train1397

MMTTLTRQDLNFGQVVADVLCEFLEVAVHLILYVREVYPVGIFQKRKKYNVPVQMSCHPELNQYIQD TLHCVKPLLEKNDVEKVVVVILDKEHRPVEKFVFEITQPPLLSISSDSLLSHVEQLLAAFILKISVCDAVLD HNPPGCTFTVLVHTREAATRNMEKIQVIKDFPWILADEQDVHMHDPRLIPLKTMTSDILKMQLYVEER AHKGS

>DM\_train1398

MKGILGTKIGMTQIWKNDRAIPVTVVLAGPCPIVQRKTAQTDGYEAVQIGYAPKAERKVNKPMQGH FAKAGVAPTRILREFRGFAPDGDSVNVDIFAEGEKIDATGTSKGKGTQGVMKRWNFAGGPASHGSKK WHRRPGSIGQRKTPGRVYKGKRMAGHMGMERVTVQNLEVVEIRAGENLILVKGAIPGANGGLVVLR SAAKASAAKGGK

>DM\_train1399

NPSPHQVYNVTWTITNLVTGTKANATSMLGTLTDAFPTMYFDLCDIIGNTWNPSDQEPFPGYGCDQ PMRRWQQRNTPFYVCPGHANRKQCGGPQDGFCAVWGCETTGETYWRPTSSWDYITVKKGVTQGI YQCSGGGWCGPCYDKAVHSSTTGASEGGRCNPLILQFTQKGRQTSWDGPKSWGLRLYRSGYDPIAL FSVSRQVMTITPPQA

>DM\_train1400

MGACGSKGSTSDKGLASDKDGKKAKDRKEAWERIRQAIPREKTAEAKQRRIELFKKFDKNETGKLCYD EVYSGCLEVLKLDEFTSRVRDITKRAFDKSRTLGSKLENKGSEDFVEFLEFRLMLCYIYDFFELTVMFDEID ASGNMLVDEEEFKRAVPKLEAWGAKVEDPAALFKELDKNGTGSVTFDEFAAWASAVKLDADGDPD NVPESA

>DM\_train1401

PEDPSDLLQHVKFQSSNFENILTWDSGPEGTPDTVYSIEYKTYGERDWVAKKGCQRITRKSCNLTVET GNLTELYYARVTAVSAGGRSATKMTDRFSSLQHTTLKPPDVTCISKVRSIQMIVHPTPTPIRAGDGHRL TLEDIFHDLFYHLELQVNRTYQMHLGGKQREYEFFGLTPDTEFLGTIMILVPTWAKESAPYMCRVKTLP DRTWT

>DM train1402

ALADGKILHNQNVNSWGPITVTPTTDGGETRFDGQIIVQMENDPVVAKAAANLAGKHAESSVVVQL DSDGNYRVVYGDPSKLDGKLRWQLVGHGRDHSETNNTRLSGYSADELAVKLAKFQQSFNQAENIN NKPDHISIVGSSLVSDDKQKGFGHQFINAMDANGLRVDVSVRSSELAVDEAGRKHTKDANGDWVQ KAENNKVSLSWDAQG

>DM\_train1403

GAMQGEVSKAASADSTTEGTPADGFTVLSTKSLFLGQKLQVVQADIASIDSDAVVHPTNTDFYIGGE VGNTLEKKGGKEFVEAVLELRKKNGPLEVAGAAVSAGHGLPAKFVIHCNSPVWGADKCEELLEKTVK NCLALADDKKLKSIAFPSIGSGRNGFPKQTAAQLILKAISSYFVSTMSSSIKTVYFVLFDSESIGIYVQEMA KLDAN

>DM train1404

APISFSHAKNEAVKIYRDHPVSFYCGCEIRWQGKKGIPDLESCGYQVRKNENRASRIEWEHVVPAWQ FGHQLQCWQQGGRKNCTRTSPEFNQMEADLHNLTPAIGEVNGNRSNFSFSQWNGIDGVTYGQCE MQVNFKERTAMPPERARGAIARTYLYMSEQYGLRLSKAQNQLMQAWNNQYPVSEWECVRDQKIE KVQGNSNRFVREQCPN

>DM\_train1405

MFKKLLHSLVAGLTFVAAVAAVPAHAQEADAQATVKTAVDDVLATIKGDPDLRGGNLQKVFQLVD QKIVPRADFKRTTQIAMGRFWSQATPEQQQQIQDGFKSLLIRTYAGALANVRNQTVAYKPFRAAAD DTDVVVRSTVNNNGEPVALDYRVEKSPNGWKVYDINISGLWLSETYKNQFADVISKRGGVGGLVQF LDERNAQLAKGPAK

>DM train1406

MIMSEMITROOVTSGETIHVRTDPTACIGSHPNCRMFIDSLTIAGEKLDKNIVAIDGGEDVTKADSATA

>DM train1408

QSLQVKPLQVEPPEPVVAVALGASRQLTCRLACADRGASVQWRGLDTSLGAVQSDTGRSVLTVRN ASLSAAGTRVCVGSCGGRTFQHTVQLLVYAFPNQLTVSPAALVPGDPEVACTAHKVTPVDPNALSFS LLVGGQELEGAQALGPEVQEEEEEPQGDEDVLFRVTERWRLPPLGTPVPPALYCQATMRLPGLELSH ROAIPVLIEGR

>DM train1409

MVDFKMTKEGLVLLIKDYQNLEEVLNAISARITQMGGFFAKGDRISLMIENHNKHSQDIPRIVSHLRNL GLEVSQILVGSTVEGKENDLKVQSRTTVESTGKVIKRNIRSGQTVVHSGDVIVFGNVNKGAEILAGGSV VVFGKAQGNIRAGLNEGGQAVVAALDLQTSLIQIAGFITHSKGEENVPSIAHVKGNRIVIEPFDKVSFE RSE

>DM train1410

IGATEQSYVASAVTPLRLNSSTKVLDMLIDSSTLEINSSGQLTVRSTSPNLRYPIADVSGGIGMSPNYRF RQSMWIGIVSYSGSGLNWRVQVNSDIFIVDDYIHICLPAFDGFSIADGGDLSLNFVTGLLPPLLTGDTE PAFHNDVVTYGAQTVAIGLSSGGAPQYMSKNLWVEQWQDGVLRLRVEGGGSITHSNSKWPAMTV SYPRSFT

>DM\_train1411

MTNLNYQQTHFVMSAPDIRHLPSDTGIEVAFAGRSNAGKSSALNTLTNQKSLARTSKTPGRTQLINLF EVADGKRLVDLPGYGYAEVPEEMKRKWQRALGEYLEKRQSLQGLVVLMDIRHPLKDLDQQMIEWA VDSNIAVLVLLTKADKLASGARKAQLNMVREAVLAFNGDVQVETFSSLKKQGVDKLRQKLDTWFSE MQPVEETQDGE

>DM train1412

TVPITSAKAAELPPGNYRLVVFELENFQGRRAEFSGECSNLADRGFDRVRSIIVSAGPWVAFEQSNFRG EMFILEKGEYPRWNTWSSSYRSDRLMSFRPIKMDAQEHKISLFEGANFKGNTIEIQGDDAPSLWVYGF SDRVGSVKVSSGTWVGYQYPGYRGYQYLLEPGDFRHWNEWGAFQPQMQSLRRLRDKQWHLEGS FPVLATEPPK

>DM train1414

GMEGSLSRGVEIMKLRELVARSRSIRRFDEHVAVNDATLRDLVELVCYTPSAANRQLLRFLPVTGADM SDKVFPCLKWAGYLEDWPGPEPGERPAAALVMLCRNEDLPGAACDSGIAAQTIMLGAAEKELGGCI VAAIDRERLMASLGIPDAWTVLLVIALGKPAETVVIDQIKPGDDIRYWRDKHGIHHVPKRQVDELLVT AEQLRERG

>DM\_train1415

SISPAQIAEALQGRGWDAEIVTDASMAGQLVDVRPEGILKCVDGRGSDNTRMGGPKMPGGIYAIAH NRGVTSIEGLKQITKEVASKGHLPSVHGDHSSDMLGCGFFKLWVTGRFDDMGYPRPQFDADQGAN AVKDAGGIIEMHHGSHTEKVVYINLLANKTLEPNENDQRFIVDGWAADKFGLDVPKFLIAAAATVEM LGGPKNAKIVVP

>DM\_train1418

MHTDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPT FDGEEEPSQGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDEAESDIFSIREVSF QSTGESEWKDTNYTLNTDSLDWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFV KSQ

>DM\_train1419

GSGAPPTDLQKMVMGNTKPVELNLDGKTVAICCATGVFGTAYLVPRHLFAEKYDKIMLDGRAMTDS DYRVFEFEIKVKGQDMLSDAALMVLHRGNKVRDITKHFRDTARMKKGTPVVGVVNNADVGRLIFSG EALTYKDIVVSMDGDTMPGLFAYKAATRAGYAGGAVLAKDGADTFIVGTHSAGGNGVGYCSCVSRS MLQKMKAHVEH

>DM\_train1420

>DM\_train1422

DISEPPLHDFYCSRLLDLVFLLDGSSRLSEAEFEVLKAFVVDMMEQLRISQKWVRVAVVEYHDGSHAYI GLKDRKRPSELRRIASQVKYAGSQVASTSEVLKYTLFQIFSKIDRPEASRIALLLMASQEPQRMSRNFVR YVQGLKKKKVIVIPVGIGPHANLKQIRLIEKQAPENKAFVLSSVDELEQQRDEIVSYLCDLAPEAPPPT

>DM\_train1423

MTKPYVRLDKNDAAVLLVDHQAGLLSLVRDIEPDKFKNNVLALGDLAKYFNLPTILTTSAETGPNGPL VPELKAQFPDAPYIARPGNINAWDNEDFVKAVKATGKKQLIIAGVVTEVCVAFPALSAIEEGFDVFVVT DASGTFNEITRHSAWDRMSQAGAQLMTWFGVACELHRDWRNDIAGLATLFSNHIPDYRNLMTSYD TLTKOK

>DM\_train1424

>DM\_train1426

GMVEQRNRGRPAVPDAVVRESIVGAAQRLLSSGGAAAMTMEGVASEAGIAKKTLYRFASGRADLIG LLVESWIAPIFPGFEADPQDAAAALERIVYDIAQAVLSREAVSLFRMLASDADLRNRFLPAYNANGIER SRRELARWLDQQASAGRLPLPIPAERVADLLLSAVIAEPLRQITLGLREPLPAWDIAPRVADAVRLIAPG RER

>DM train1427

LKNEETEKKLNLNQQRLGTVVAVLKSVNAKKVIDLGCGEGNLLSLLLKDKSFEQITGVDVSYSVLERAK DRLKIDRLPEMQRKRISLFQSSLVYRDKRFSGYDAATVIEVIEHLDENRLQAFEKVLFEFTRPQTVIVSTP NKEYNFHYGNLFEGNLRHRDHRFEWTRKEFQTWAVKVAEKYGYSVRFLQIGEIDDEFGSPTQMGVFT I

>DM\_train1428

MSLEKEYEYLVPPDDYLAAGVHIGTQIKTGDMKKFIFKVRQDGLYVLDIRKLDERIRVAAKFLSRYEPSKI LLVAARQYAHKPVQMFSKVVGSDYIVGRFIPGTLTNPMLSEYREPEVVFVNDPAIDKQAVSEATAVGI PVVALCDSNNSSADVDLVIPTNNKGRRALAIVYWLLAREIAKIRGQDFTYSIEDFEAELEGGSHHHHH H

>DM train1429

MGSDKIHHHHHHMKKLTVYLATTNPHKVEEIKMIAPEWMEILPSPEKIEVVEDGETFLENSVKKAVVY

>DM\_train1430

MGSDKIHHHHHHMNVINETANVLKLETGSVTSAKGFSAVGIHTGVKRKRKDLGAIVCEVPASSAAVY TLNKVQAAPLKVTQESIAVEGKLQAMIVNSGIANACTGKRGLDDAYTMRAVGAETFHIPEHYVAVTS TGVIGEFLPMDVITNGIRQLKPEATIEGAHAFNEAILTTDTVEKHTCYQTIVNGKTVTVGGVAKGSGMI HPNMA

>DM train1431

KSVLEDNLPFLEFPGSIVYSYEASDCSFLSEDISMRLSDGDVVGFDMEWPPIYKPGKRSRVAVIQLCVSE SKCYLFHISSMSVFPQGLKMLLENKSIKKAGVGIEGDQWKLLRDFDVKLESFVELTDVANEKLKCAETW SLNGLVKHVLGKQLLKDKSIRCSNWSNFPLTEDQKLYAATDAYAGLIIYQKLGNLGDTVQVFALNKAE E

>DM train1432

GMSESPTAGRASLAPLREFITGLSALLDEQPGEARILREGGALLARLVARDDWLPDAFAQPHPEYYQQ MLLHCDSAERFSIVSFVWGPGQRTPIHDHTVWGLIGMLRGAEYSQPFVLDGSGRPVLHGEPTRLEPG HVEAVSPTVGDIHRVHNAYDDRVSISIHVYGANIGGVRRSVYTEAGERKPFISGYSNPYLPNPWDRSK DSAAS

>DM train1433

MTERLNEQNNESYRYLRSVGNQWQFNVEDLHPKMLSRLYKRFDTFDLDSDGKMEMDEVLYWPDR MRQLVNATDEQVEKMRDAVRVFFLHKGVEPVNGLLREDWVEANRVFAEAERERERRGEPSLIALLSN SYYDVLDDDGDGTVDVDELKTMMKAFDVPQEAAYTFFEKADTDKSGKLERTELVHLFRKFWMEPYD POWDGVYAYKY

>DM train1434

# >DM\_train1435

MTEKKIDFKKEEKKFYAPKRKPERIFVPEMNFLMVDGKGDPDGEEYQKAVQSLYAIAYTIKMSKMGET RLDGYSDFVVPPLEGFWWSEGKFDLKDRDAWLWTSILRQPDFVTEEVLEWAKEVARKKKPDVDTSR VKLVRFEEGECVQMMHVGPFSEEVHTVAEMHQFMETEGLRNDTGAIRKHHEIYLSDPRKANPEKMK TILRLPVS

#### >DM train1436

MLNKLSLLLKDAGISLTDHQKNQLIAYVNMLHKWNKAYNLTSVRDPNEMLVRHILDSIVVAPYLQGE RFIDVGTGPGLPGIPLSIVRPEAHFTLLDSLGKRVRFLRQVQHELKLENIEPVQSRVEEFPSEPPFDGVISR AFASLNDMVSWCHHLPGEQGRFYALKGQMPEDEIALLPEEYQVESVVKLQVPALDGERHLVVIKAN KI

#### >DM train1437

FKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLSEAHTCIPENNGGAGCVCHLLMDD VVSADNYTLDLWAGQQLLWKGSFKPSEHVKPRAPGNLTVHTNVSDTLLLTWSNPYPPDNYLYNHLT YAVNIWSENDPADFRIYNVTYLEPSLRIAASTLKSGISYRARVRAWAQAYNTTWSEWSPSTKWHNSY REPFEOH

## >DM\_train1438

## >DM\_train1439

## >DM\_train1440

GQEHALENYWPVMGVEFSEDMLDFPALFGREAPVTLEIGFGMGASLVAMAKDRPEQDFLGIEVHSP GVGACLASAHEEGLSNLRVMCHDAVEVLHKMIPDNSLRMVQLFFPDPWHKARHNKRRIVQVPFAE LVKSKLQLGGVFHMATDWEPYAEHMLEVMSSIDGYKNLSESNDYVPRPASRPVTKFEQRGHRLGHG VWDLMFERVK

>DM\_train1442

MTDHVREADDANIDDLLGDLGGTARAERAKLVEWLLEQGITPDEIRATNPPLLLATRHLVGDDGTYV SAREISENYGVDLELLQRVQRAVGLARVDDPDAVVHMRADGEAAARAQRFVELGLNPDQVVLVVR VLAEGLSHAAEAMRYTALEAIMRPGATELDIAKGSQALVSQIVPLLGPMIQDMLFMQLRHMMETEA VNAGERAAG

>DM train1443

MAPAKSPRAWQRMLSGRRLDLLDPSPLDVEIADIAHGLARVARWNGQTRGDHAFTVAQHCLIVETI FCRMCPGATPDEMQMALLHDAPEYVIGDMISPFKSVVGGGYKTVEKRLEAAVHLRFGLPPHASRELK DRIKKADTVAAFFEATELAGFSTAEAQKFFGLPRGITRDMFDIIPLPSTEAQRLFIARFEAIETLRVTRTGG AV

>DM\_train1444

GYFEGMLIKQTDYFRIYRVINSLLISQNADPASASMYFSTFGAFILQQHYKVKAVPKGGLAAYNLGGTV LLFADHREDGYVTGAGENFHCWVEADGWAIDFMAPAFSEGTDALAVPAKMFQRPLSAMAASINDL GQSGDFFYRSEPEATARRFADWHKQAMIGDMASVAANWFRKSPKQMAASLSVTDRDGKARTVPL TGEMLTGAW

>DM train1445

>DM\_train1446

MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRPGGGGGA AGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQTFCPVLYA WNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPIQYPIISE CKCSC

>DM train1447

MAKKIFTSALGTAEPYAYIAKPDYGNEERGFGNPRGVYKVDLTIPNKDPRCQRMVDEIVKCHEEAYAA AVEEYEANPPAVARGKKPLKPYEGDMPFFDNGDGTTTFKFKCYASFQDKKTKETKHINLVVVDSKGKK

MEDVPIIGGGSKLKVKYSLVPYKWNTAVGASVKLQLESVMLVELATFGGGEDDWADEVEENGYVAS GSAK

>DM train1448

>DM\_train1449

DEIIDETDNLYVSQGPGVDISGDVNLTDFDKIGWPNVEAVQSYQREFNAVSNIFDTIYPIGTIYENAVN PNNPVTYMGFGSWKLFGQGKVLVGWNEDISDPNFALNNNDLDSGGNPSHTAGGTGGSTSVTLEN TNLPATETDEEVLIVDENGSVIVGGCQYDPDESGPIYTKYREAKASTNSTHTPPTSITNIQPYITVYRWIR IA

>DM train1450

GSPEFSLDVRQEELGAVVDKEMAATSAAIEDAVRRIEDMMNQARHASSGVKLEVNERILNSCTDLMK AIRLLVTTSTSLQKEIVESGRGAATQQEFYAKNSRWTEGLISASKAVGWGATQLVEAADKVVLHTGKY EELIVCSHEIAASTAQLVAASKVKANKHSPHLSRLQECSRTVNERAANVVASTKSGQEQIEDRDTMDF SGL

>DM\_train1451

>DM\_train1452

>DM train1453

GTLIRATTLSRLSFIDVVNDNGFYQFEKPKEGRKYVATLDCSEGRGQDYHALQIIDITEFPYKQVAVYHS

>DM train1454

>DM\_train1455

>DM train1456

TMLCVLTTDAAAEPAALERALRRAAAATFDRLDIDGSCSTNDTVLLLSSGASEIPPAQADLDEAVLRV CDDLCAQLQADAEGVTKRVTVTVTGAATEDDALVAARQIARDSLVKTALFGSDPNWGRVLAAVGM APITLDPDRISVSFNGAAVCVHGVGAPGAREVDLSDADIDITVDLGVGDGQARIRTTDLSHAYVEENS AYSS

>DM train1457

>DM\_train1458

>DM train1459

APEGYRKLLDVQIFKDSPVVGWSGSGMGELETIGDTLPVDTTVTYNGLPTLRLNVQTTVQSGWWISL LTLRGWNTHDLSQYVENGYLEFDIKGKEGGEDFVIGFRDKVYERVYGLEIDVTTVISNYVTVTTDWQH

>DM train1460

>DM train1461

>DM\_train1462

AQIKSLFATRLYHAPLSEHGPALDPAEFAASCYSIAEDDDAGQEWCEREGYPGYTSYASLTDLPWRFPI FADLVKSLDAHVAAFAEDLEFELDGKALRLEDIWINILPEGGVHGSHIHPHSVISGTTYVAMPEGTSAL KLEDPRLPFMMAAPTRRKGAREELRTFRSVAPKVGDVLLWESWLRHEVPMNMAEEDRISVSFNYAW G

>DM train1464

MATDTLTHATAHAHEHGHHDAGGTKIFGFWIYLMSDCILFSILFATYAVLVNGTAGGPTGKDIFELPF VLVETFLLLFSSITYGMAAIAMYKNNKSQVISWLALTWLFGAGFIGMEIYEFHHLIVNGMGPDRSGFLS AFFALVGTHGLHVTSGLIWMAVLMVQIARRGLTSTNRTRIMCLSLFWHFLDVVWICVFTVVYLMGA M

>DM\_train1465

>DM train1466

GAFRTQKPSLNTVNVVGSSMGSGGVFTIDGKIKCVTAAHVLTGNSARVSGVGFNQMLDFDVKGDFA IADCPNWQGVAPKAQFCEDGWTGRAYWLTSSGVEPGVIGNGFAFCFTACGDSGSPVITEAGELVGV

HTGSNKQGGGIVTRPSGQFCNVKPIKLSELSEFFAGPKVPLGDVKIGSHIIKDTCEVPSDLCALLAAKPE LE

>DM train1467

>DM\_train1469

>DM train1470

>DM train1471

>DM\_train1472

EGNGPAAVHYQPASPPRDACVYSSCYCEENVWKLCEYIKNHDQYPLEECYAVFISNERKMIPIWKQQ ARPGDGPVIWDYHVVLLHVSSGGQSFIYDLDTVLPFPCLFDTYVEDAIKSDDDIHPQFRRKFRVICADS YLKNFASDRSHMKDSSGNWREPPPPYPCIETGDSKMNLNDFISMDPKVGWGAVYTLSEFTHRFGSK NC

>DM train1474

LKAGPLLSSEKLIAIGASTGGTEAIRHVLQPLPLSSPAVIITQHMPPGFTRSFAERLNKLCQISVKEAEDGE RVLPGHAYIAPGDKHMELARSGANYQIKIHDGPPVNRHRPSVDVLFHSVAKHAGRNAVGVILTGMG

NDGAAGMLAMYQAGAWTIAQNEASCVVFGMPREAINMGGVSEVVDLSQVSQQMLAKISAGQAI RI

>DM train1475

MEPDMTQAFDDDTLRFYRGNATAYAERQPRSATLTKFLGELPAGAKILELGCGAGYQAEAMLAAGF DVDATDGSPELAAEASRRLGRPVRTMLFHQLDAIDAYDAVWAHACLLHVPRDELADVLKLIWRALK PGGLFYASYKSGEGEGRDKLARYYNYPSEEWLRARYAEAGTWASVAVESSEGKGFDQELAQFLHVSV RKPE

>DM train1476

>DM train1477

>DM train1478

>DM\_train1479

>DM train1481

GMDDQSGDQMRPELTMPPAEAEALRMAYEEAEVILEYGSGGSTVVAAELPGKHVTSVESDRAWAR MMKAWLAANPPAEGTEVNIVWTDIGPTGDWGHPVSDAKWRSYPDYPLAVWRTEGFRHPDVVLVD GRFRVGCALATAFSITRPVTLLFDDYSQRRWQHQVEEFLGAPLMIGRLAAFQVEPQPIPPGSLMQLIR TMTSP

>DM train1482

>DM\_train1483

LPTLGPGWQRQNPDPPVSRTRSLLLDAASGQLRLEDGFHPDAVAWANLTNAIRETGWAYLDLSTN GRYNDSLQAYAAGVVEASVSEELIYMHWMNTVVNYCGPFEYEVGYCEKLKNFLEANLEWMQREME LNPDSPYWHQVRLTLLQLKGLEDSYEGRLTFPTGRFTIKPLGFLLLQISGDLEDLEPALNKTNTKPSLGS GS

>DM train1484

>DM train1485

>DM\_train1486

>DM train1488

MKLFYKPGACSLASHITLRESGKDFTLVSVDLMKKRLENGDDYFAVNPKGQVPALLLDDGTLLTEGVA IMOYLADSVPDROLLAPVNSISRYKTIEWLNYIATELHKGFTPLFRPDTPEEYKPTVRAOLEKKLQYVNE

>DM train1489

>DM train1490

GADNNKWKPLFGKNLENANYNPEVWSETDGVLGAVKDESIWTKDEYENFELDLDFKTDVGTNSGV VVYCTDTKDWIPNSVEIQIADDHCEKWGNGKPYEKCGAIYGHLGAVQDKVVKKPGEWNHMRIKCA GQHIMVILNGKKVTEMDMSKWTSGTKNPDGSDIPSWLPKPFAELPTKGFIGLQGKHGDSLIWFRNIKI RSL

>DM train1491

>DM train1492

>DM\_train1493

>DM\_train1495

MELRDRIDFLCKTILAIKTAGRLVLGIDGLSRSGKTTLANQLSQTLREQGISVCVFHMDDHIVERAKRYH TGNEEWFEYYYLQWDVEWLTHQLFRQLKASHQLTLPFYDHETDTHSKRTVYLSDSDMIMIEGVFLQR KEWRPFFDFVVYLDCPREIRFARENDQVKQNIQKFINRYWKAEDYYLETEEPIKRADVVFDMTS

>DM\_train1496

>DM train1497

>DM\_train1498

GMTIKALFWDIGGVLLTNGWDREQRADVAQRFGLDTDDFTERHRLAAPELELGRMTLAEYLEQVVFY QPRDFTPEDFRAVMEEQSQPRPEVLALARDLGQRYRMYSLNNEGRDLNEYRIRTFGLGEFLLAFFTSS ALGVMKPNPAMYRLGLTLAQVRPEEAVMVDDRLQNVQAARAVGMHAVQCVDAAQLREELAALG VR

>DM train1499

>DM train1500

>DM train1501

>DM\_train1502

>DM\_train1503

>DM train1504

>DM\_train1505

>DM\_train1506

MVGQVIRKRGAYPEYTVEDVLAVIFLLKEPLGRKQISERLELGEGSVRTLLRKLSHLDIIRSKQRGHFLTLK GKEIRDKLLSMFSEPIGVSVDGYPGIAIVVKNPPEFKSIELRDEAIKFDAKGAMILTVKDNEIVFPEDFRPL KEMYPEVAKKIVDYEDGDAVIITWAETPAKALKSAIHVAYILKKEEITPEILEVVK

>DM\_train1507

# >DM\_train1508

>DM\_train1509

>DM\_train1510

>DM train1511

>DM\_train1512

>DM\_train1514

>DM train1515

AHMGIQRPTSTTTDKKEIKAYLKQVDKIKDDEEPIKTVGKKIAELDEKKKKLTEDVNSKDTAVRGKAVKD

>DM train1516

>DM\_train1517

>DM\_train1518

>DM train1519

>DM\_train1521

>DM\_train1522

MGSSGSSNILIINGAKKFAHSNGQLNDTLTEVADGTLRDLGHDVRIVRADSDYDVKAEVQNFLWAD VVIWQMPGWWMGAPWTVKKYIDDVFTEGHGTLYASDGRTRKDPSKKYGSGGLVQGKKYMLSLTW NAPMEAFTEKDQFFHGVGVDGVYLPFHKANQFLGMEPLPTFIANDVIKMPDVPRYTEEYRKHLVEIFG

>DM train1524

>DM train1525

>DM train1526

>DM\_train1527

>DM train1528

>DM\_train1529

>DM train1530

RNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYPCTSEEIDHEDITKDKTSTVEACLPLELT KNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAKLLMDPKRQIFLDQNM LAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS

>DM train1531

>DM train1532

>DM train1533

>DM train1534

>DM train1536

>DM train1538

>DM train1539

>DM train1540

>DM train1541

MSLSLKIALISQNENLLNLFPKLALEKNFIPITKTASLTRASKIAFGLQDEVDAIISRGATSDYIKKSVSIPSIS IKVTRFDTMRAVYNAKRFGNELALIAYKHSIVDKHEIEAMLGVKIKEFLFSSEDEITTLISKVKTENIKIVVS GKTVTDEAIKOGLYGETINSGEESLRRAIEEALNLIEVRNEGHHHHHH

>DM train1542

>DM\_train1543

>DM\_train1544

MRGSHHHHHHLVPRGSKTRGQIQVILGPMFSGKSTELMRRVRRFQIAQYKCLVIKYAKDTRYSSSFCT HDRNTMEALPACLLRDVAQEALGVAVIGIDEGQFFPDIVEFCEAMANAGKTVIVAALDGTFQRKPFG

>DM train1545

SNAMWKRMTAKAEGLYIADTKSFVTKQMDKLDFDYGGIPGDLHFGLTKKAGAREPMFSRGTEIFNRR QISIVSIEECNEIALKMGVPRILPEWLGANVAVSGMPDLTSLKEGSRIIFPSGAALLCEGENDPCIQPGEV IQSYYPDQPKLASAFVRHALGIRGIVCIVERPGAVYTGDEIEVHSYQRKVKRKAERV

>DM train1547

>DM\_train1548

MSAFFLNMEKSIITQKIIAKAFKDLMQSNAYHQISVSDIMQTAKIRRQTFYNYFQNQEELLSWIFENDF AELINDNSDYYGWQNELLLLRYLDENQIFYQKIFVIDKNFEHFFLIQWENLLDKVIFDQEKKSDYHWS DLEKSFICRYNAAAICAITRESIIRGNSLEKLYSQIVNLLLAQIKIFESLEHHHHHH

>DM\_train1549

>DM train1550

>DM train1551

>DM\_train1552

MTAPHDPLDDIQADPWALWLSGRTRTALELPHYRRAAVLVALTREADPRVLLTVRSSELPTHKGQIAF PGGSLDAGETPTQAALREAQEEVALDPAAVTLLGELDDVFTPVGFHVTPVLGRIAPEALDTLRVTPEV AQIITPTLAELRAVPLVRERRTLPDGTEVPLYRYPWRGLDIWGMTARVLHDLLEQGPG

>DM\_train1553

STNDNIKDLLDWYSSGSDTFTNSEVLDNSLGSMRIKNTDGSISLIIFPSPYYSPAFTKGEKVDLNTKRIKK SQHTSEGTWIHFQISGVTNTEKLPTPIELPLKVKVHGKDSPLKYWPKFDKKQLAISTLDFKIRHQLTQTH GLYRSSDKTGGYWKITMNDGSTYQSDLSKKFEYNTEKPPINIDEIKTIEAEIN

>DM train1554

>DM\_train1555

HMPGGSKKIGIFGGTFDPPHNGHLLMANEVLYQAGLDEIWFMPNQIPPHKQNEDYTDSFHRVEMLK LAIQSNPSFKLELVEMEREGPSYTFDTVSLLKQRYPNDQLFFIIGADMIEYLPKWYKLDELLNLIQFIGVK RPGFHVETPYPLLFADVPEFEVSSTMIRERFKSKKPTDYLIPDKVKKYVEENGLYES

>DM\_train1556

>DM\_train1557

## >DM\_train1558

>DM\_train1559

>DM\_train1560

>DM train1563

>DM\_train1564

>DM\_train1565

>DM train1566

MKDDPKVHLEAKELWDQFHKRGTEMVITKSGRRMFPPFKVRCSGLDKKAKYILLMDIIAADDCRYKF

HNSRWMVAGKADPEMPKRMYIHPDSPATGEQWMSKVVTFHKLKLTNNISDKHGFTILNSMHKYQP RFHIVRANDILKLPYSTFRTYLFPETEFIAVTAYQNDKITQLKIDNNPFAKGFRDTGNGRR

>DM train1567

GMQTPALIIVTGHPATGKTTLSQALATGLRLPLLSKDAFKEVMFDGLGWSDREWSRRVGATAIMMLY HTAATILQSGQSLIMESNFRVDLDTERMQNLHTIAPFTPIQIRCVASGDVLVERILSRIAQGARHPGHC DDRSPADLELVRSRGDIPPLPLGGPLLTVDTTFPEQIDMNAIVQWVRQHLQSGTAFL

>DM\_train1568

>DM train1569

>DM train1570

>DM\_train1571

MLEKVYVALIHYPIKGKDGSIISTAVTNLDVHDIARTARTYNLKGYYIVTNLRAQQDMVSKMLKFWRE GFGSRYNPSRAESLKLVKLKSYLEDVLEDIESVEGERPLIFFTSAKKRENDISFEEGRRIIIETEKPVLILLGTG WGLPDEILEISDYVLEPIRAQSDFNHLSVRAAAAIIIDRLIGENYARRD

>DM\_train1572

GRGTKQVYIIHGYRASSTNHWFPWLKKRLLADGVQADILNMPNPLQPRLEDWLDTLSLYQHTLHEN TYLVAHSLGCPAILRFLEHLQLRAALGGIILVSGFAKSLPTLQMLDEFTQGSFDHQKIIESAKHRAVIASK DDQIVPFSFSKDLAQQIDAALYEVQHGGHFLEDEGFTSLPIVYDVLTSYFSKETR

>DM\_train1573

>DM train1575

>DM\_train1576

>DM\_train1577

>DM\_train1578

>DM\_train1582

>DM train1584

>DM train1585

>DM train1586

>DM\_train1587

MKVGIIMGSVRAKRVCPEIAAYVKRTIENSEELIDQKLKIQVVDLQQIALPLYEDDDELIPAQIKSVDEYA DSKTRSWSRIVNALDIIVFVTPQYNWGYPAALKNAIDRLYHEWHGKPALVVSYGGHGGSKCNDQLQ EVLHGLKMNVIGGVAVKIPVGTIPLPEDIVPQLSVHNEEILQLLASCIETTRNK

>DM train1588

>DM train1589

>DM train1591

MSLTLADKVVYEEEIQKSRFIAKAAPVASEEEALAFLAENREPEATHNGHAYKIGLLYRFSDDGEPSGTA GRPILHAIEAQGLDRVAVLVVRYFGGVKLGAGGLVRAYGGVAAEALRRAPKVPLVERVGLAFLVPFAE VGRVYALLEARALKAEETYTPEGVRFALLLPKPEREGFLRALLDATRGQVALE

>DM train1592

>DM train1593

>DM train1594

MTSRGDSREKILHTASRLSQLQGYHATGLNQIVKESGAPKGSLYHFFPNGKEELAIEAVTYTGKIVEHLI QQSMDESSDPVEAIQLFIKKTASQFDNTESIKGIPVGLLASETALISEPLRTVCMKVFKSWEAVFARKLM ENGFAEEEANQLGTLINSMIEGGIMLSLTNKDKTPLLLIAEQIPVLVRKKG

>DM train1597

>DM\_train1598

>DM\_train1599

GMPTFNPELHAQTLNSERAYFVQPDADPAFTPHIGALVEMLTYARLTTLQAVEGLPEDQLWATAPGF ANSIGTLLAHIAAVERVYHVLSFQGRDVTPEDDGAAYWGLTMGKEGTAPARLPTLDELRAELADARA

>DM train1600

GMTSPSIESGARERTRRAILDAAMLVLADHPTAALGDIAAAAGVGRSTVHRYYPERTDLLRALARHVH DLSNAAIERADPTSGPVDAALRRVVESQLDLGPIVLFVYYEPSILADPELAAYFDIGDEAIVEVLNRASTE RPEYPPGWARRVFWALMQAGYEAAKDGMPRHQIVDAIMTSLTSGIITLPRT

>DM train1601

MTNATIAPTTTAAPVTKSVDAPTADENTPLFSPSLISPDVLAVLPADYTIRPLCRSDYKRGYLDVLRVLT TVGDINEEQWNSRYEWIRARSDEYYLLVVCDGEGRIVGTGSLVVERKFIHSLGMVGHIEDIAVEKGQQ GKKLGLRIIQALDYVAEKVGCYKTILDCSEANEGFYIKCGFKRAGLEMAHYY

>DM\_train1603

MATEGMILTNHDHQIRVGVLTVSDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKIVPDEIEEIKETLI DWCDEKELNLILTTGGTGFAPRDVTPEATKEVIEREAPGMALAMLMGSLNVTPLGMLSRPVCGIRGKT LIINLPGSKKGSQECFQFILPALPHAIDLLRDAIVKVKEVHDRSHHHHHH

>DM train1604

GSHMVPISFVFNRFPRMVRDLAKKMNKEVNFIMRGEDTELDRTFVEEIGEPLLHLLRNAIDHGIEPKEE RIAKGKPPIGTLILSARHEGNNVVIEVEDDGRGIDKEKIIRKAIEKGLIDESKAATLSDQEILNFLFVPGFST KEKVSEVSGRGVGMDVVKNVVESLNGSISIESEKDKGTKVTIRLPLT

>DM train1605

>DM train1608

>DM\_train1609

MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTWHG GIATIFQSPGDEVWGVVWKMNKSNLNSLDEQQGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYES APPSPQYKKIICMGAKENGLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL

>DM\_train1610

GMNLDSYERTGLRVSLDLVNIATPGSRRGTPHTGGCVIEDLHDLLKDDPASVAQLGDDHVEGFVELA RLLHTAIDALSNGQVATAATALNHLLRKHPATPELAQDPDGTWRLHHHPLDAELVPMWTAICAEGL AREIGHQNVRRFGICNAHRCDRVYFDTSRNGTRQYCSLACQNRVKAAAFRERRAT

>DM train1611

MLGTSFNNFGISLSHKRYFSGKVDEIIRCTMGKRIVKISSTKINTSILSSVSEQIGENITDWKNDEKKVYVS RVVNQCIDKFCAEHSRKIGDNLRKQIFKQVEKDYRISLDINAAQSSINHLVSGSSYFKKKMDELCEGM NRSVKNDTTSNVANLISDQFFEKNVQYIDLKKLRGNMSDYITNLESPF

>DM\_train1613

MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYM QVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTW TKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEKEVRLMIPL

>DM\_train1614

MADDDDKAPPTLWSRVTKFGSGWGFWVSPTVFITTTHVVPTGVKEFFGEPLSSIAIHQAGEFTQFRFS KKMRPDLTGMVLEEGCPEGTVCSVLIKRDSGELLPLAVRMGAIASMRIQGRLVHGQSGMLLTGANAK GMDLGTIPGDCGAPYVHKRGNDWVVCGVHAAATKSGNTVVCAVQAGEGETALE

>DM\_train1615

GMSRDRLYTWAGLWRSPSSSWEALRLEDDQAESQLRAPDERSGLPYQLDYRLRWDADWHLREAVF HVESETGVRKLHLLADGRGHWQDGDGEALPAFDGCLDIDIWPSPFTNTFPIRRLGLADGQRAEIRALY IEAPALEPRSMRQAYTRLDASHYLYENLEGSAFKAVLLVDEQGLVIDYPGLFQRL

# >DM\_train1616

KTFIIGISGVTNSGKTTLAKNLQKHLPNCSVISQDDFFKPESEIETDKNGFLQYDVLEALNMEKMMSAIS CWMESARHSVVSTDQESAEEIPILIIEGFLLFNYKPLDTIWNRSYFLTIPYEECKRRRSTRVYQPPDSPGY FDGHVWPMYLKYRQEMQDITWEVVYLDGTKSEEDLFLQVYEDLIQEL

>DM\_train1617

MSKAGASLATCYGPVSADVMAKAENIRLLILDVDGVLSDGLIYMGNNGEELKAFNVRDGYGIRCALT SDIEVAIITGRKAKLVEDRCATLGITHLYQGQSNKLIAFSDLLEKLAIAPENVAYVGDDLIDWPVMEKVG LSVAVADAHPLLIPRADYVTRIAGGRGAVREVCDLLLLAQGKLDEAKGQSI

>DM\_train1618

AHHHHHHMVHITLDRNTANSWLIISKDRRQVRMGDTHQNVSDNKERFSNYPMVLGAQRFSSGKM YWEVDVTQKEAWDLGVCRDSVQRKGQFSLSPENGFWTIWLWQDSYEAGTSPQTTLHIQVPPCQIGI FVDYEAGVVSFYNITDHGSLIYTFSECVFAGPLRPFFNVGFNYSGGNAAPLKLCPLKM

>DM train1619

AAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLREHCRERPGAFPSEETLRGLGRRG FLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNIYCMAQLLDNSDT AEPTKAGRGASQPPTPTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKW

>DM\_train1620

MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSEL TEAERLQENLQAYRTFHVLLARLLEDQQVHFTPTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPRN EADGMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIP

>DM\_train1621

MPIASYAQELKLALHQYPNFPSEGILFEDFLPIFRNPGLFQKLIDAFKLHLEEAFPEVKIDYIVGLESRGFLF GPTLALALGVGFVPVRKAGKLPGECFKATYEKEYGSDLFEIQKNAIPAGSNVIIVDDIIATGGSAAAAGE LVEQLEANLLEYNFVMELDFLKGRSKLNAPVFTLLNAQKEALKK

>DM train1622

MYKILEIADVVKVPPEEFGKDLKETVKKILMEKYEGRLDKDVGFVLSIVDVKDIGEGKVVHGDGSAYHP

VVFETLVYIPEMYELIEGEVVDVVEFGSFVRLGPLDGLIHVSQIMDDYVSYDPKREAIIGKETGKVLEIGD YVRARIVAISLKAERKRGSKIALTMROPYLGKLEWIEEEKAKKONOE

>DM train1624

GSDEDFVTCYSVLKFINANDGSRLHSHDVKYGSGSGQQSVTAVKNSDDINSHWQIFPALNAKCNRG DAIKCGDKIRLKHLTTGTFLHSHHFTAPLSKQHQEVSAFGSEAESDTGDDWTVICNGDEWLESEQFKL RHAVTGSYLSLSGOOFGRPIHGOREVVGTDSITGGSAWKVAEGIYIKHOOKDL

>DM\_train1625

VGYGDITQVETSGASSKTSRQDKLEYDGVRASHTMAQTDAGRMEKYKSFINNVAKKHVVDPAVIAAI ISRESRAGNVIFNTTPPGWGDNYNGFGLMQVDKRYHEPRGAWNSEEHIDQATGILVNFIQLIQKKFP SWSTEQQLKGAIAAYNTGDGRVESYESVDSRTTGKDYSNDVVARAQWYKKNGF

>DM train1626

MSDSKEVPSLPFLRHLLEELDSHEDSLLLFLCHDAAPGCTTVTQALCSLSQQRKLTLAALVEMLYVLQR MDLLKSRFGLSKEGAEQLLGTSFLTRYRKLMVCVGEELDSSELRALRLFACNLNPSLSTALSESSRFVEL VLALENVGLVSPSSVSVLADMLRTLRRLDLCQQLVEYEQQEQARYRYC

>DM train1627

GMSQTTVVNGVNVDQLMATIEQIKAKPEIAQFKFRATNQWMGGTHNQATIKDFYGACAEDDTRKP MVFDLDEPPVLLGENRGANPVEYLLVALSGCLTTSLVAHAAARGIALRGVKSRYEGDIDLRGFLGLSEE VPVGYREIRVFFSIDADLTDGQKEELIRMAQKYSPVYNTVAKPVPVAVLLDRG

>DM\_train1628

INAGTDLDNPKDLEVSDPTETTLSLRWRRPVAKFDRYRLTYVSPSGKKNEMEIPVDSTSFILRGLDAGTE YTISLVAEKGRHKSKPTTIKGSTVVGSPKGISFSDITENSATVSWTPPRSRVDSYRVSYVPITGGTPNVVT VDGSKTRTKLVKLVPGVDYNVNIISVKGFEESEPISGILKTALDS

>DM\_train1629

MAPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSKEALAENNLNLPK MAEKDGCFQSGFNEETCLVKIITGLLEFEVYLEYLQNRFESSEEQARAVQMSTKVLIQFLQKKAKNLDAI TTPDPTTNASLLTKLQAQNQWLQDMTTHLILRSFKEFLQSSLRALRQM

>DM train1631

EKEMIERDMREYRGFSRAVRAVFEEKERFPGLVDVVSNLIEVDEKYSLAVSVLLGGTAQNIVVRNVDTA KAIVEFLKQNEAGRVTILPLDLIDGSFNRISGLENERGFVGYAVDLVKFPSDLEVLGGFLFGNSVVVETL DDAIRMKKKYRLNTRIATLDGELISGRGAITGGREERSSNVFERRIK

>DM train1632

>DM\_train1633

KQGIVKSDPKLPDDTTFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRME KISKRVNAIEEVNNNVKLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMRPTLFRLASDTEDNDE ALAEILQANDNLTQVINLYKQLVRGEEVNGDATAGSIPGSTSALLDLSGLD

>DM\_train1634

MRKDETSNTSPDISVAQPASALRYHLRPPRRNDGAAIHQLVSECPPLDLNSLYAYLLLCEHHAHTCVV AESPGGRIDGFVSAYLLPTRPDVLFVWQVAVHSRARGHRLGRAMLGHILERQECRHVRHLETTVGPD NOASRRTFAGLAGERGAHVSEQPFFDRQAFGGADHDDEMLLRIGPFTHPPH

>DM\_train1635

KMDMEDADMTLWTEAEFEEKCTYIVNDHPWDSGADGGTSVQAEASLPRNLLFKYATNSEEVIGVM SKEYIPKGTRFGPLIGEIYTNDTVPKNANRKYFWRIYSRGELHHFIDGFNEEKSNWMRYVNPAHSPRE QNLAACQNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNLTQ

>DM\_train1636

GSHMQQWVDCEFTGRDFRDEDLSRLHTERAMFSECDFSGVNLAESQHRGSAFRNCTFERTTLWHS TFAQCSMLGSVFVACRLRPLTLDDVDFTLAVLGGNDLRGLNLTGCRLRETSLVDTDLRKCVLRGADLS GARTTGARLDDADLRGATVDPVLWRTASLVGARVDVDQAVAFAAAHGLCLAGG

>DM train1637

SLWQPQTGDIIFQISRSSQSKAIQLATHSDYSHTGMLVMRNKKPYVFEAVGPVKYTPLKQWIAHGEK GKYVVRRVEGGLSVEQQQKLAQTAKRYLGKPYDFSFSWSDDRQYCSEVVWKVYQNALGMRVGEQ QKLKEFDLSNPLVQAKLKERYGKNIPLEETVVSPQAVFDAPQLTTVAKEWPLFSW

>DM train1638

GVSIRSMKNFYDWIKEFVRDQGEFIAQQSGWLELERSSYAKLIAQTISHVLNGGSLLVSADSSRHWFL NYILSNLNPKDLKERPLLSVIDFNASSFYPKNDANLSLATIEMTYQNPMFWHVGKIENEGLKTILLSKIPS FLWLFEELKEDCLLLKEHDSLLDYKLLOLFKLFENALFSVLYNKVTL

>DM train1639

KKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGSFLTKGPSKLNDRADSRRSLWDQGNF PLIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQGQSLTLTLESPPGSSPSVQCRSPRGKNI QGGKTLSVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLAFQKASNT

>DM\_train1640

MKFCSQCGGEVILRIPEGDTLPRYICPKCHTIHYQNPKVIVGCIPEWENKVLLCKRAIAPYRGKWTLPA GFMENNETLVQGAARETLEEANARVEIRELYAVYSLPHISQVYMLFRAKLLDLDFFPGIESLEVRLFGEQ EIPWNDIAFRVIHDPLKRYMEERHHGQPAFHLGIINKPQAGSNSNE

>DM train1641

RKQPIGPEDVLGLQRITGDYLCSPEENIYKIDFVRFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPNAG RFVRYQFTPAFLRLRQVGATVEFTVGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCEHIYD FPPLSEELISEMIRHPYETQSDSFYFVDDRLVMHNKADYSYSGTP

>DM train1642

MQKVHVQYIDGETDQMLRQDDLDGYTDETIPYSTAEGIKKFEGDGYELFKDNFPAGEKFDNDDTND QFYTVIFKHHRENVDPNHSSADGTKGTKTLTETVHYKYANGTKAAEDQTAQVTFTRNGVLDDVTGIV AWGKWNEASQSYKALTSPTIAGYAPSEAVVKRSSNSDAEQGPTLTVIYTADA

>DM train1643

MKGKTAAGGGAICAIAVMITIVMGNGNVRTNQAGLELIGNAEGCRRDPYMCPAGVWTDGIGNTHG VTPGVRKTDQQIAADWEKNILIAERCINQHFRGKDMPDNAFSAMTSAAFNMGCNSLRTYYSKARG MRVETSIHKWAQKGEWVNMCNHLPDFVNSNGVPLRGLKIRREKERQLCLTGLVNE

>DM train1645

ESSVNPVVLDFEDGTVMSFGEAWGDSLKCIKKVSVSQDLQRPGNKYALRLDVEFNPNNGWDQGDL GTWIGGVVEGQFDFTGYKSVEFEMFIPYDEFSKSQGGFAYKVVINDGWKELGSEFNITANAGKKVKIN GKDYTVIHKAFAIPEDFRTKKRAQLVFQFAGQNSNYKGPIYLDNVRIRPEDA

>DM train1646

AGVLWDVPSPPPVGKAELEDGAYRIKQKGILGYSQIGAGVYKEGTFHTMWHVTRGAVLMHKGKRIEP SWADVKKDLISYGGGWKLEGEWKEGEEVQVLALEPGKNPRAVQTKPGLFKTNTGTIGAVSLDFSPGT SGSPIVDKKGKVVGLYGNGVVTRSGAYVSAIANTEKSIEDNPEIEDDIFRK

>DM train1648

AVPIAQKSEPHSLSSEALMRRAVSLVTDSTSTFLSQTTYALIEAITEYTKAVYTLTSLYRQYTSLLGKMNS EEEDEVWQVIIGARAEMTSKHQEYLKLETTWMTAVGLSEMAAEAAYQTGADQASITARNHIQLVKL QVEEVHQLSRKAETKLAEAQIEELKQKTQEEGEERAESEQEAYLRED

>DM train1649

MPKTLIILAHPNISQSTVHKHWSDAVRQHTDRFTVHELYAVYPQGKIDVAAEQKLIETHDSLVWQFPI YWFNCPPLLKQWLDEVLTYGWAYGSKGKALKGRKIALAVSLGAPAADYRADGAVGCSVAEVLRPFEL TAKYCNADYRPPFTFHTIDSNAGYSEAARQEVERSARDYLAWLDALQQT

>DM\_train1650

VNSDSHPLFVRSLAKNMTWQLADTSTQKVLASGASATSGDKQSLLMQSVNLSYQEDGRGFNWRA QAALSLSYLEPTPLDSKFSTGYLELKMRIDKAPEQGANLQVMCSESNCLRDIDFSSFSQLMADKSWHT LAIPLHCDDSDQAEQPITDALRITSQNLSLAIADVALTIKPSDDSISLTCAK

>DM\_train1651

MKYQLRFGGEGGQGVITAGEILAEAAIKEGRQAFKASTYTSQVRGGPTKVDIIIDDKEILFPYAVEGEVD FMLSTADKGYKGFRGGVKEGGIIVVEPNLVHPESEDYKKWQIFEIPIITIAKDEVGNVATQSVVALAIAA

YMSKCIDLDVLKETMLHMVPAKTRDANAKAFDLGVKYATQAKPH

>DM train1652

MTKAELRRRARAAWRRLDLKALSRAVGAALLPWLRERGFRHILLYHPLPHELNLLPLMEAYPARYYLP KVAGKGLTVHPFGPLAPGPFGLLEPTTPPEDPRVLDLVVVPGLAFDREGYRLGHGQGFYDRFLKEVRA ATVGVVPQALLFPALPRDPWDVPVDHLATEAGVEAVKRPAPGPGGLLD

>DM train1653

GPGSMEQPKGINILITGTPGTGKTSMAEMIAAELDGFQHLEVGKLVKENHFYTEYDTELDTHIIEEKDE DRLLDFMEPIMVSRGNHVVDYHSSELFPERWFHMVVVLHTSTEVLFERLTKRQYSEAKRAENMEAEI QCICEEEARDAYEDDIVLVRENDTLEQMAATVEEIRERVEVLKVERGL

>DM\_train1655

NSRVSDLDLELLFQDRAARLGKSISRLIVVASLIDKPTNLGGLCRTCEVFGASVLVVGSLQCISDKQFQH LSVSAEQWLPLVEVKPPQLIDYLQQKKTEGYTIIGVEQTAKSLDLTQYCFPEKSLLLLGNEREGIPANLIQ QLDVCVEIPQQGIIRSLNVHVSGALLIWEYTRQQLLSHGDTKP

>DM\_train1656

GMLFSIQTCPCQINPALNAVSTPLLYQDCCQPYHDGLYNQEVEDSDAIRADTAEHLMRTRYSAFVLV KPEYIVKTTLPAQQDLLDIKAIENWAKETDWAGLEVVAHTPKLSKRHAQVEFKAYFKTPDGLQAHHEL STFVKIKNKANSDASWYFLDPTVSMSVTQKQPCICGSGEKFKRCCGMYI

>DM train1657

SNAMKIAVINGGTRSGGNTDVLAEKAVQGFDAEHIYLQKYPIQPIEDLRHAQGGFRPVQDDYDSIIERI LQCHILIFATPIYWFGMSGTLKLFIDRWSQTLRDPRFPDFKQQMSVKQAYVIAVGGDNPKIKGLPLIQ QFEHIFHFMGMSFKGYVLGEGNRPGDILRDHQALSAASRLLKRSDAI

>DM train1658

GPGFDYAVAMAKRNIVTATTSKGEFTMLGVHDNVAILPTHASPGESIVIDGKEVEILDAKALEDQAGT NLEITIITLKRNEKFRDIRPHIPTQITETNDGVLIVNTSKYPNMYVPVGAVTEQGYLNLGGRQTARTLMY NFPTRAGQCGGVITCTGKVIGMHVGGNGSHGFAAALKRSYFTQSQ

>DM\_train1660

VGSADAPAPYRVSSDCMVCHGMTGRDTLYPIVPRLAGQHKSYMEAQLKAYKDHSRADQNGEIYM WPVAQALDSAKITALADYFNAQKPPMQSSGIKHAGAKEGKAIFNQGVTNEQIPACMECHGSDGQG AGPFPRLAGQRYGYIIQQLTYFHNGTRVNTLMNQIAKNITVAQMKDVAAYLSSL

>DM\_train1661

GMDYNQTVLSHLQKFWKHHDIKGFTWTLGRIVEELPDFQVFQVIPNHEDEPWVYVSSGIGQFLGQE FFIISPFETPEHIETLAMLASASMHYPDQFQLGKTVNIGRPWVEQSSFRHFLISLPYPYGQELEYMDNVR FFWLLPITQTERLFLNTHSVEELETKFDEAGIDYLDINRASTVWQAG

>DM train1662

SNAMTRYALLVRGINVGGKNKVVMAELRQELTNLGLEKVESYINSGNIFFTSIDSKAQLVEKLETFFAV HYPFIQSFSLLSLEDFEAELENLPAWWSRDLARKDFLFYTEGLDVDQVIATVESLELKDEVLYFGKLGIF WGKFSEESYSKTAYHKYLLKVPFYRHITIRNAKTFDKIGQMLKK

>DM\_train1663

MQRCDWVSQDPLYIAYHDNEWGVPETDSRKLFEMICLEGQQAGLSWITVLKKRENYRACFHQFDPI RIAAMQEEDVERLLQNTGIIRHRGKIQAIISNARAWLAMEQNGESFADFVWSFVDGQPQITQAASLD KIPTSTPASDALAKALKKRGFKFVGTTICYSFMQACGLVNDHITGCFCHP

>DM\_train1664

TPMRSPIIWINGPFGVGKTHTAHTLHERLPGSFVFEPEEMGQALRKLTPGFSGDPQEHPMWIPLMLD ALQYASREAAGPLIVPVSISDTARHRRLMSGLKDRGLSVHHFTLIAPLNVVLERLRRDGQPQVNVGTV EDRLNELRGEQFQTHIDTAGLGTQQVAEQIAAQVGLTLAPPPQGALHW

>DM\_train1666

MSLTDVMFKSQIANQLKNLRKSRGLSLDATAQLTGVSKAMLGQIERGESSPTIATLWKIASGLEASFSA FFANDPQLLSSERSFPDDLNMKIHTLFPYAADTGLEIFEITLLDHHQQMSSPHALGVIEYIHVLEGIMKV FFDEQWHELQQGEHIRFFSDQPHGYAAVTEKAVFQNIVAYPRR

## >DM\_train1667

MALTATVRRAELQISDMDRGYYANHSLTLAQHPSETDERLMVRLLAFALFADDRLEFGRGLSNDDEP DLWRRDYTGDPDLWIDLGQPDESRVRKACNRSREAVVIGYGGQATETWWKKHANAMGRYRNLRV IELDSQATEALGALIQRGMRFDVIIQDGEVQMLADHGSVTLTPMVRQAPAE

>DM\_train1668

QKPQRPRRPASPISTIQPKANFDAQQFAGTWLLVAVGSAARFLQEQGHRAEATTLHVAPQGTAMA VSTFRKLDGICWQVRQLWGDTGVLGRFLLQARGARGAVHVVVAETDYQSFAVLYLERAGQLSVKLY ARSLPVSDSVLSGFEQRVQEAHLTEDQIFYFPKYGFCEAADQFHVLDEVRR

>DM\_train1669

AGLKLMGAPVKLTVSQGQPVKLNCSVEGMEEPDIQWVKDGAVVQNLDQLYIPVSEQHWIGFLSLKS VERSDAGRYWCQVEDGGETEISQPVWLTVEGVPFFTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIVW WRGTTKIGGPAPSPSVLNVTGVTQSTMFSCEAHNLKGLASSRTATVHLQ

>DM train1670

ELPSLCMLNNSFYYMKGGANIFLIRVSDVSVLMKEYDVSVYEPEDLGNCLNKSDSSWAIHWFSIALGH DWLMDPPMLCRNKTKKEGSNIQFNISKADESRVYGKKIRNGMRHLFRGFYDPCEEGKVCYVTINQC GDPSSFEYCGTNYLSKCQFDHVNTLHFLVRSKTHLNFGTGTKHHHHHH

>DM\_train1671

GPAAGQAYDAGNLDVASSPVKPTLSITKKTLTAAEAPNAKVTMELSVEGAADKYAATGLHIQFDPKLK LIPDEDGALATAGRAARLLELKKAEADTDNSFFTATGSSTNNGKDGVLWSFVLQVPADAQPGDKYD VQVAYQSRTTNEDLFTNVKKDEEGLLMQAWTFTQGIEQGYIQVESTTS

>DM\_train1672

GSCRRAFDLYFVLDKSGSVANNWIEIYNFVQQLAERFVSPEMRLSFIVFSSQATIILPLTGDRGKISKGLE DLKRVSPVGETYIHEGLKLANEQIQKAGGLKTSSIIIALTDGKLDGLVPSYAEKEAKISRSLGASVYCVGV LDFEQAQLERIADSKEQVFPVKGGFQALKGIINSILAQSC

>DM train1673

MHTOVHTARLVHTADLDSETRODIROMVTGAFAGDFTETDWEHTLGGMHALIWHHGAIIAHAAVI

QRRLIYRGNALRCGYVEGVAVRADWRGQRLVSALLDAVEQVMRGAYQLGALSSSARARRLYASRG WLPWHGPTSVLAPTGPVRTPDDDGTVFVLPIDISLDTSAELMCDWRAGDVW

>DM train1674

GGSNTNWKTLYEVKSENLGQGDKPDYFSSVATVVYLRKENCMYQACPTQDCNKKVIDQQNGLYRC EKCDTEFPNFKYRMILSVNIADFQENQWVTCFQESAEAILGQNAAYLGELKDKNEQAFEEVFQNANF RSFIFRVRVKVETYNDESRIKATVMDVKPVDYREYGRRLVMSIRRSALM

>DM\_train1675

MSKIICLTAGHSNTDPGAVNGSDREADLAQDMRNIVASILRNDYGLTVKTDGTGKGNMPLRDAVKLI RGSDVAIEFHTNAAANKTATGIEALSTPKNKRWCQVLGKAVAKKTGWKLRGEDGFKPDNAGQHSRL AYAQAGGIVFEPFFISNDTDLALFKTTKWGICRAIADAIAMELGAAKV

>DM train1676

MGSDKIHHHHHHMTENSRKTATELFEFLDGLGISHTTKQHEPVFTVAESQSLRDLIPGGHTKNLFVKD KKDQYFVLTVEENAVVDLKSVHKTIGAASRVSFGRPEKMLEYLGVVPGSVTVFGAINDTARQVTFVLD SDLLENELVNGHPLSNDQTTTIASKDLIRFLEATGHAPLVLKVSE

>DM train1677

>DM\_train1678

MAGSREVVAMDCEMVGLGPHRESGLARCSLVNVHGAVLYDKFIRPEGEITDYRTRVSGVTPQHMVG ATPFAVARLEILQLLKGKLVVGHDLKHDFQALKEDMSGYTIYDTSTDRLLWREAKLDHCRRVSLRVLSE RLLHKSIONSLLGHSSVEDARATMELYOISORIRARRGLPRLAVSD

>DM\_train1680

MELEIRPLFLVPDTNGFIDHLASLARLLESRKYILVVPLIVINELDGLAKGQETDHRAGGYARVVQEKAR KSIEFLEQRFESRDSCLRALTSRGNELESIAFRSEDITGQLGNNDDLILSCCLHYCKDKAKDFMPASKEEP IRLLREVVLLTDDRNLRVKALTRNVPVRDIPAFLTWAQVG

>DM\_train1681

HQYLLPEAKAQDSDKICVVINLDETLVHSSFKPVNNADFIIPVEIDGVVHQVYVLKRPHVDEFLQRMG ELFECVLFTASLAKYADPVADLLDKWGAFRARLFRESCVFHRGNYVKDLSRLGRDLRRVLILDNSPASY VFHPDNAVPVASWFDNMSDTELHDLLPFFEQLSRVDDVYSVLRQ

>DM train1682

SLKVLAITGYKPFELGIFKQDDKALYYIKKAIKNRLIAFLDEGLEWILISGQLGVELWAAEAAYDLQEEYP DLKVAVITPFYEQEKNWKEPNKEQYEAVLAQADYEASLTHRPYESPLQFKQKNQFFIDKSDGLLLLYD PEKEGSPKYMLGTAEKRREQDGYPIYFITMDDLRVTVEEDSY

>DM\_train1683

MKKWRFLGIDDSFDDRKCCVVGCVTCGGYVEGFLYTEIDIDGLDATDKLISMVRRSKFREQIKCIFLPGI TLGGFNLVDIQRVYRETKIPVVVVMRRKPDMEEFDSAMRNLENYELRRKIVEVAGEIHRIGDIYIQTAGL TPSEAEKLVKASLIKGNMPEPVRISHLVASAIIHGESRGKA

>DM\_train1684

CAVSSFRVKENFDKARFSGTWYAMAKKDPEGLFLQDNIVAEFSVDETGQMSATAKGRVRLLNNWD VCADMVGTFTDTEDPAKFKMKYWGVASFLQKGNDDHWIVDTDYDTYAVQYSCRLLNLDGTCADS YSFVFSRDPNGLPPEAQKIVAQRQEELCLAAQYRLIVHNGYCDGRSERNLL

>DM train1685

MRGSHHHHHHGSITSGNKSTNVTVHKSEAGTSSVFYYKTGDMLPEDTTHVRWFLNINNEKSYVSKDI TIKDQIQGGQQLDLSTLNINVTGTHSNYYSGQSAITDFEKAFPGSKITVDNTKNTIDVTIPQGYGSYNS FSINYKTKITNEQQKEFVNNSQAWYQEHGKEEVNGKSFNHTVHN

>DM\_train1686

APLAYERPVLHLVALNTPVAGDIRADFQCFQQARAAGLLSTFRAFLSSHLQDLSTVVRKAERFGLPIVN LKGQVLFNNWDSIFSGDGGQFNTHIPIYSFDGRDVMTDPSWPQKVVWHGSNPHGVRLVDKYCEA WRTTDMAVTGFASPLSTGKILDQKAYSCANRLIVLCIENSFMTDTRK

>DM train1687

MSVKMKKCSREDLQTLQQLSIETFNDTFKEQNSPENMKAYLESAFNTEQLEKELSNMSSQFFFIYFDH EIAGYVKVNIDDAQSEEMGAESLEIERIYIKNSFQKHGLGKHLLNKAIEIALERNKKNIWLGVWEKNEN AIAFYKKMGFVQTGAHSFYMGDEEQTDLIMAKTLILEHHHHHH

>DM train1688

GSHMENMGTRVIEPLIMGRVVGDVLDFFTPTTKMNVSYNKKQVSNGHELFPSSVSSKPRVEIHGGDL RSFFTLVMIDPDVPGPSDPFLKEHLHWIVTNIPGTTDATFGKEVVSYELPRPSIGIHRFVFVLFRQKQRR VIFPNIPSRDHFNTRKFAVEYDLGLPVAAVFFNAQRETAARKR

>DM train1689

VMLTRQQKELIVKEMSEIFKKTSLILFADFLGFTVADLTELRSRLREKYGDGARFRVVKNTLLNLALKNAE YEGYEEFLKGPTAVLYVTEGDPVEAVKIIYNFYKDKKADLSRLKGGFLEGKKFTAEEVENIAKLPSKEELYA MLVGRVKAPITGLVFALSGILRNLVYVLNAIKEKKSE

>DM train1690

MGSSSSGLVPRGSGAVSGSVQASDRLMKELRDIYRSQSYKTGIYSVELINDSLYDWHVKLQKVDPDS PLHSDLQILKEKEGIEYILLNFSFKDNFPFDPPFVRVVLPVLSGGYVLGGGALCMELLTKQGWSSAYSIES VIMQINATLVKGKARVQFGANKNQYNLARAQQSYNSIVQIHE

>DM\_train1691

GSSGSSGMANERMNLMNMAKLSIKGLIESALNLGRTLDSDYAPLQQFFVVMEHCLKHGLKAKKTFL GQNKSFWGPLELVEKLVPEAAEITASVKDLPGLKTPVGRGRAWLRLALMQKKLSEYMKALINKKELLSE FYEVNALMMEEEGAIIAGLLVGLNVIDANFCMKGEDLDSQVGVID

>DM train1692

MEQRRLASTEWVDIVNEENEVIAQASREQMRAQCLRHRATYIVVHDGMGKILVQRRTETKDFLPGM LDATAGGVVQADEQLLESARREAEEELGIAGVPFAEHGQFYFEDKNCRVWGALFSCVSHGPFALQED EVSEVCWLTPEEITARCDEFTPDSLKALALWMKRNAKNEAVETETAE

>DM train1693

GAPRSHEVPLLVTLEELYLGKRKKIKVTRKRFIEHKVRNEENIVEVEIKPGWKDGTKLTYSGEGDQESPGT SPGDLVLIIQTKTHPRFTRDDCHLIMKVTIPLVRALTGFTCPVTTLDNRNLQIPIKEIVNPKTRKIVPNEG MPIKNQPGQKGDLILEFDICFPKSLTPEQKKLIKEALD

>DM train1694

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>DM train1695

EVYALEESRDVYLSDLDWLNATHGDDTKSKIVQKNHPFTPGNNNQSTKISLKMEDGSISEFEKGLGTI AGSPSTITYDISGAGVTKFFSYLGIDRSANPINEQYAKVDKIEVVVDGKVIYSTINQFPNGLTYETPAIKV DLNIPENAKRLQLKSYAGEKTWGDEVVYADAKFTAKGDFVN

>DM train1697

AAQGKEVVLLDFAAAGGELGWLTHPYGKGWDLMQNIMNDMPIYMYSVCNVMSGDQDNWLRTN WVYRGEAERIFIELKFTVRDCNSFPGGASSCKETFNLYYAESDLDYGTNFQKRLFTKIDTIAPDEITVSSD FEARHVKLNVEERSVGPLTRKGFYLAFQDIGACVALLSVRVYYKKCP

>DM train1698

RSRLTADEYLKIYQAAESSPCWLRLAMELAVVTGQRVGDLCEMKWSDIVDGYLYVEQSKTGVKIAIPT ALHIDALGISMKETLDKCKEILGGETIIASTRREPLSSGTVSRYFMRARKASGLSFEGDPPTFHELRSLSAR LYEKQISDKFAQHLLGHKSDTMASQFRDDRGREWDKIEI

>DM\_train1699

MAAGQNGHEEWVGSAYLFVESSLDKVVLSDAYAHPQQKVAVYRALQAALAESGGSPDVLQMLKIH RSDPQLIVQLRFCGRQPCGRFLRAYREGALRAALQRSLAAALAQHSVPLQLELRAGAERLDALLADEE RCLSCILAQQPDRLRDEELAELEDALRNLKCGSGARGGDGEVASAP

>DM\_train1701

SADVAGAVIDGASLSFDILKTVLEALGNVKRKIAVGVDNESGKTWTALNTYFRSGTSDIVLPHKVPHGK ALLYNGOKDRGPVATGAVGVLAYLMSDGNTLAVLFSVPYDYNWYSNWWNVRIYKGKRRADORMY

EELYYNLSPFRGDNGWHTRNLGYGLKSRGFMNSSGHAILEIHVSKA

>DM train1702

MASNEARYVLAEEVDFSSPEEVKNWWNSGTWQAEFGSPDIEWNGEVGNGALQLNVKLPGKSDWE EVRVARKFERLSECEILEYDIYIPNVEGLKGRLRPYAVLNPGWVKIGLDMNNANVESAEIITFGGKEYRR FHVRIEFDRTAGVKELHIGVVGDHLRYDGPIFIDNVRLYKRTGGM

>DM train1703

MSEHFVGKYEVELKFRVMDLTTLHEQLVAQKATAFTLNNHEKDIYLDANGQDLAKQQISMVLREMN PSGIRLWIVKGPGAERCEASNIEDVSKVQSMLATLGYHPAFTIEKQRSIYFVGKFHITVDHLTGLGDFAE IAIMTDDATELDKLKAECRDFANTFGLQVDQQEPRSYRQLLGF

>DM\_train1704

MAEEYSWDSYLNDRLLATNQVSGAGLASEEDGVVYACVAQGEESDPNFDKWSLFYKEDYDIEVEDE NGTKTTKTINEGQTILVVFNEGYAPDGVWLGGTKYQFINIERDLEFEGYNFDVATCAKLKGGLHLVKV PGGNILVVLYDEEKEQDRGNSKIAALTFAKELAESSQLQHHHHHH

>DM train1705

ASWSHPQFEKGAMALTEAWLIEKANRKLNAGGMYKITSDKTRNVIKKMAKEGIYLCVAQGYRSTAEQ NALYAQGRTKPGAIVTNAKGGQSNHNYGVAVDLCLYTNDGKDVIWESTTSRWKKVVAAMKAEGFK WGGDWKSFKDYPHFELCDAVSGEKIPAATQNTNTNSNRYEGKVIDSA

>DM train1706

HHHHHHLAYSLDATASFLNFVSSKKTHVLETHRFDVLSGGISTAGEAQLVIDLNSVNTGIDVRNGRM RDYLFETATYSVATVTVPVDLAAVAGLAVGEDMLVDVSATLDLHGVPGVIDTQLNVQRLSATRIMVQ NOSPLLIKAADYSLEAGIETLRNLASLNVISTTVPVDFVLFYEAP

>DM train1707

MVEIIPVSTTLELRAADESHVPALHQLVLKNKAWLQQSLDWPQYVTSQEETRKHVQGNILLHQRGYA KMYLIFCQNEMAGVLSFNAIEPINKAAYIGYWLDESFQGQGIMSQSLQALMTHYARRGDIRRFVIKCR VDNQASNAVARRNHFTLEGCMKQAEYLNGDYHDVNMYARIIDAD

>DM\_train1708

MISYEFQTHLPKGKDSSLNASSENKELYVQATHFNNTILLQIRLNGEMDSTYEVSSKGLNPILDINVPLA GNLGNTGGDYDDEEEEFVRDHLSDYQVVTKLGDSADPKVPVVCVQIAELYRRVILPEVSGTMAQDN MQFSLLISMSSKIWRATKEQSADDNDFGKLVFVLKCIKDMYAK

>DM\_train1710

MEDSCVLRGVMINKDVTHPRMRRYIKNPRIVLLDSSLEYKKGESQTDIEITREEDFTRILQMEEEYIHQL CEDIIQLKPDVVITEKGISDLAQHYLMRANVTAIRRVRKTDNNRIARACGARIVSRPEELREDDVGTGA GLLEIKKIGDEYFTFITDCKDPKACTILLRGASHHHHHH

>DM train1711

MPAYHSSLMDPDTKLIGNMALLPIRSQFKGPAPRETKDTDIVDEAIYYFKANVFFKNYEIKNEADRTLIY ITLYISECLKKLQKCNSKSQGEKEMYTLGITNFPIPGEPGFPLNAIYAKPANKQEDEVMRAYLQQLRQET GLRLCEKVFDPQNDKPSKWWTCFVKRQFMNKSLSGPGQ

>DM\_train1713

GMARKVILFIAMSIDNYIADDQGAVDWLEKNVHGTESDDSYEKMYSKIDTVIMGRTTYEQVTQKLSP EKYVYADRQTYIVTSHLGEDTDKIKYWKQSPVELVKRIQKEKGKDVWIVGGAKIIDPLVQANLIDTYILT TVPIFLGSGIRLFDRLEEQVPVRLIDVYQKNELVYSIYQRG

>DM\_train1714

ADFTETFESSTHGEAPAEWTTIDADGDGQGWLCLSSGQLDWLTAHGGSNVVSSFSWNGMALNPD NYLISKDVTGATKVKYYYAVNDGFPGDHYAVMISKTGTNAGDFTVVFEETPNGINKGGARFGLSTEA NGAKPQSVWIERTVDLPAGTKYVAFRHYNCSDLNYILLDDIQFTMGG

>DM\_train1715

SKPRILLMGLRRSGKSSIQKVVFHKMSPNETLFLESTNKIYKDDISNSSFVNFQIWDFPGQMDFFDPTF DYEMIFRGTGALIYVIDAQDDYMEALTRLHITVSKAYKVNPDMNFEVFIHKVDGLSDDHKIETQRDIH QRANDDLADAGLEKLHLSFYLTSIYDHSIFEAFSKVVQKLI

>DM\_train1716

MASAVGEKMLDDFEGVLNWGSYSGEGAKVSTKIVSGKTGNGMEVSYTGTTDGYWGTVYSLPDGD WSKWLKISFDIKSVDGSANEIRFMIAEKSINGVGDGEHWVYSITPDSSWKTIEIPFSSFRRRLDYQPPGQ DMSGTLDLDNIDSIHFMYANNKSGKFVVDNIKLIGALEHHHHHH

>DM\_train1718

MKWNLDPSHTSIDFKVRHMGIASVRGSLKVLSGSVETDEAGRPIQVEAVIDAASIATGEPQRDGHLRS ADFLHAEQYPEIRFVSTQIEPLGGNRYRIQGNLTIRDITKPVTLEAEVSAPIKDPWGMQRVAASASGQI NRKDWNLTWNQVLELGALLVGEEVKFNLEVEAVAPAPVAAQ

>DM\_train1719

EAEASAVTVDTICKNGQLVQMSNHFKCMCNEGLVHLSENTCEEKNECKKETLGKACGEFGQCIENP DPAQVNMYKCGCIEGYTLKEDTCVLDVCQYKNCGESGECIVEYLSEIQSAGCSCAIGKVPNPEDEKKC TKTGETACOLKCNTDNEVCKNVEGVYKCOCMEGFTFDKEKNVCL

>DM train1720

PLGSQYFLKVLIPSYAAGSIIGKGGQTIVQLQKETGATIKLSKSKDFYPGTTERVCLIQGTIEALNAVHGFI AEKIREMPQNVAKTEPVSILQPQTTVNPDRANQVKIIVPNSTAGLIIGKGGATVKAIMEQSGAWVQLS QKPDGINLQNRVVTVSGEPEQNRKAVELIIQKIQEDPQ

>DM\_train1721

MTSVNLSYPIGEYKPRESISKEQKDKWIQVLEEVPAKLKQAVEVMTDSQLDTPYRDGGWTVRQVVH HLADSHMNSYIRFKLSLTEETPAIRPYDEKAWSELKDSKTADPSGSLALLQELHGRWTALLRTLTDQQF KRGFYHPDTKEIITLENALGLYVWHSHHHIAHITELSRRMGWS

>DM\_train1722

APLVHHHHHHALANPAICRYPLGMSGGQIPDEDITASSQWSESTAAKYGRLDSEEGDGAWCPEIPV EPDDLKEFLQIDLHTLHFITLVGTQGRHAGGHGIEFAPMYKINYSRDGTRWISWRNRHGKQVLDGNS NPYDIFLKDLEPPIVARFVRFIPVTDHSMNVCMRVELYGCVWLDG

>DM train1723

MLAKVLKKRGAVLRGDFVLSSGRRSSVYIDMRRLLGDESSYSVALDLLLEVGGODLARSSAVIGVATG

GLPWAAMLALRLSKPLGYVRPERKGHGTLSQVEGDPPKGRVVVVDDVATTGTSIAKSIEVLRSNGYTV GTALVLVDRGEGAGELLARMGVRLVSVATLKTILEKLGWGGE

>DM train1725

AVSFIGSTENDVGPSLGSYSRTHAMDNLPFVYDTRNKIGYQNANVWHISKGFCVGLDGKVDLPVVG SLDGQSIYGLTEEVGLLIWMGDTKYSRGTAMSGNSWENVFSGWCVGANTASTQGLSVRVTPVILKR NSSARYSVOKTSIGSIRMRPYNGSSAGSVOTTVNFSLNPFTLNDT

>DM\_train1726

MSIEKLKAALPEYAKDIKLNLSSITRSSVLDQEQLWGTLLASAAATRNPQVLADIGAEATDHLSAAARH AALGAAAIMGMNNVFYRGRGFLEGRYDDLRPGLRMNIIANPGIPKANFELWSFAVSAINGCSQCLVA HEHTLRTVGVDREAIFEALKAAAIVSGVAQALATIEALSPS

>DM\_train1727

GKSRQRSPANCPTIKLKRQWGGKPSLGLHYQVRPIRYVVIHHTVTGECSGLLKCAEILQNMQAYHQN ELDFNDISYNFLIGNDGIVYEGTGWGLRGAHTYGYNAIGTGIAFIGNFVDKLPSDAALQAAKDLLACG VQQGELSEDYALIAGSQVISTQSPGLTLYNEIQEWPHWLSNP

>DM train1728

MLDAFSRVVTNADSKAAYVGGADLQALKKFISEGNKRLDSVNSIVSNASCIVSDAVSGMICENPSLIS PSGNCYTNRRMAACLRDGEIILRYVSYALLSGDASVLEDRCLNGLKETYSSLGVPANSNARAVSIMKA CAVAFVNNTASQKKLSTPQGDCSGLASEVGGYFDKVTAAIS

>DM\_train1729

IIAMEKFAEYALSFGTEILTVEYGPLPIGKIVSEEINCSVYSVDPEGRVYTQAIAQWHDRGEQEVLEYELE DGSVIRATSDHRFLTTDYQLLAIEEIFARQLDLLTLENIKQTEEALDNHRLPFPLLDAGTIKMVKVIGRRS LGVORIFDIGLPODHNFLLANGAIAAACFNISTGP

>DM\_train1730

MGHHHHHHSHPVETSKFKFKCYGDFWLSVNRIYPEKRIELQLEVFKKLQDEKLYIVGWFSKGDHAERY ARKIMKIAPDNVKFLGSVSEEELIDLYSRCKGLLCTAKDEDFGLTPIEAMASGKPVIAVNEGGFKETVINE KTGYLVNADVNEIIDAMKKVSKNPDKFKKDCFRRAKEF

>DM\_train1732

GMPQTLKPDTPAGTPAAGAVAFRRQVLPQDALLVRRVVESTGFFTPEEADVAQELVDEHLMHGAAC GYHFVFATEDDDMAGYACYGPTPATEGTYDLYWIAVAPHRQHSGLGRALLAEVVHDVRLTGGRLLF AETSGIRKYAPTRRFYERAGFSAEAVLKAFYRAGDDKIIYRLEVA

>DM train1733

MRTSKKEMILRTAIDYIGEYSLETLSYDSLAEATGLSKSGLIYHFPSRHALLLGMHELLADDWDKELRDIT RDPEDPLERLRAVVVTLAENVSRPELLLLIDAPSHPDFLNAWRTVNHQWIPDTDDLENDAHKRAVYL VQLAADGLFVHDYIHDDVLSKSKRQAMLETILELIPSQT

>DM\_train1734

MVKLTAELIEQAAQYTNAVRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFPLLRRLKTLL VNNNRICRIGEGLDQALPDLTELILTNNSLVELGDLDPLASLKSLTYLCILRNPVTNKKHYRLYVIYKVPQ VRVLDFQKVKLKERQEAEKMFKGKRGAQLAKDIAR

>DM\_train1735

ATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDALVSKYTDSQGKNRT TIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYENYAIVEGCPAAANGHVIYVQLRMTLRRFHPKLG DKEMLQHYTLDQVNQNKKAIEEDLKHFNLKYEDLHSTCH

>DM\_train1736

SHQVGVAGAVFDESTRKILVVQDRNKLKNMWKFPGGLSEPEEDIGDTAVREVFEETGIKSEFRSVLSIR QQHTNPGAFGKSDMYIICRLKPYSFTINFCQEECLRCEWMDLNDLAKTENTTPITSRVARLLLYGYREG FDKIDLTVEELPAVYTGLFYKLYHKELPENYKTMKGID

>DM\_train1737

MSSHTATKYDVFLSFRGHDTRHNFISFLYKELVRRSIRTFKDDKELENGQRFSPELKSPIEVSRFAVVVVS ENYAASSWCLDELVTIMDFEKKGSITVMPIFYGVEPNHVRWQTGVLAEQFKKHASREDPEKVLKWRQ ALTNFAQLSGDCSGDDDSKLVDKIANEISNKKTIYATI

>DM train1738

HHHHHHGCMSGRKPIIGVMGPGKADTAENQLVMANELGKQIATHGWILLTGGRSLGVMHEAMKG AKEAGGTTIGVLPGPDTSEISDAVDIPIVTGLGSARDNINALSSNVLVAVGMGPGTAAEVALALKAKKP VVLLGTQPEAEKFFTSLDAGLVHVAADVAGAIAAVKQLLAKLN

>DM train1739

MAPEAQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDGGLNLTSTFLRK NQCETRTMLLQPAGSLGSYSYRSPHWGSTYSVSVVETDYDQYALLYSQGSKGPGEDFRMATLYSRT OTPRAELKEKFTAFCKAOGFTEDTIVFLPOTDKCMTEQAHHHHHH

>DM train1740

SATTSSKNGKPLVVVYGDYKCPYCKELDEKVMPKLRKNYIDNHKVEYQFVNLAFLGKDSIVGSRASHA VLMYAPKSFLDFQKQLFAAQQDENKEWLTKELLDKHIKQLHLDKETENKIIKDYKTKDSKSWKAAEKD KKIAKDNHIKTTPTAFINGEKVEDPYDYESYEKLLKDKIK

>DM\_train1741

LRPPLPPATPQEVQFVQHMLQHHAQALDLAAPMLERSQQRTVRSLALDIQLSQREQMRQMEAML GRWGQPPGEPISPEHARMMGMASEAEVAGLSTLPVEQAERQFLRLMIRHHQGAVAMTLPMLDAA ARPEVERLARQIVVTQRGEIRTMEGVLGRLDGEVPAAPMRPVEHGHGH

>DM train1742

AITGIFFGSDTGNTENIAKMIQKQLGKDVADVHDIAKSSKEDLEAYDILLLGIPTWYYGEAQCDWDDF FPTLEEIDFNGKLVALFGCGDQEDYAEYFCDALGTIRDIIEPRGATIVGHWPTAGYHFEASKGLADDDH FVGLAIDEDRQPELTAERVEKWVKQISEELHLDEILNA

>DM train1743

IFGIDDLIIGVLFVAIVETGIGGYLLGSRKESGGGVTKESAEKGFEKIGNDIQILKSSINIAIEKLNDRISHDE QAIRDLTLEIENARSEALLGELGIIRALLVGNISIGLQESLWELASEITNRAGDLAVEVSPGCWIIDNNICD QSCQNFIFKFNETAPVPTIPPLDTKIDLQ

>DM train1744

MSTTNHDHHIYVLMGVSGSGKSAVASEVAHQLHAAFLDGDFLHPRRNIEKMASGEPLNDDDRKPW LQALNDAAFAMQRTNKVSLIVCSALKKHYRDLLREGNPNLSFIYLKGDFDVIESRLKARKGHFFKTQM LVTQFETLQEPGADETDVLVVDIDQPLEGVVASTIEVIKKGK

>DM train1745

MAKKVAVLAVNPVNGCGLFQYLEAFFENGISYKVFAVSDTKEIKTNSGMVLIVDDVIANLKGHEDEFD ALVFSCGDAVPVFQQYANQPYNVDLMEVIKTFGEKGKMMIGHCAGAMMFDFTGITKGKKVAVHPL AKPAIQNGIATDEKSEIDGNFFTAQDENTIWTMLPKVIEALK

>DM train1746

METYPITVGGVTRHVPLIEPLPGRRIPLVEFLGDPEFTRAAAEALRPLVPKEAEILFTTETSPIPLTHVLAEA LGLPYVVARRRRRPYMEDPIIQEVQTLTLGVGEVLWLDRRFAEKLLNQRVVLVSDVVASGETMRAME KMVLRAGGHVVARLAVFRQGTPGLAVDTVAELPVL

>DM train1747

MSLAKNIVFIGFMGSGKSTLARALAKDLDLVFLDSDFLIEQKFNQKVSEIFEQKRENFFREQEQKMADF FSSCEKACIATGGGFVNVSNLEKAGFCIYLKADFEYLKKRLDKDEISKRPLFYDEIKAKKLYNERLSKYEQK ANFILNIENKNIDELLSEIKKVIKEGGSHHHHHH

>DM train1748

AHHHHHHGSMLKEVHELLNRIWGDIFELREELKEELKGFTVEEVSEVFNAYLYIDGKWEEMKYPHPAF AVKPGGEVGATPQGFYFVFAFPKEELSKEFIEDVIRAFEKLFIYGAENFLEDFYNFEHPISGDEVWDRIVN SDEEMINFEVDLGFDKEEVKREIKRFIELARRYNLL

>DM\_train1749

PLGSPNSSIVSLLGIKVLNNPAKFTDPYEFEITFECLESLKHDLEWKLTYVGSSRSLDHDQELDSILVGPV PVGVNKFVFSADPPSAELIPASELVSVTVILLSCSYDGREFVRVGYYVNNEYDEEELRENPPAKVQVDHI VRNILAEKPRVTRFNIVWDNENEGDLYPPEQPGV

>DM\_train1751

MAFPDTDVSPPRGGPSSPAKSPLLRSFKVKTYIPKNDEQNWVVVDASGVPLGRLATLIASRIRGKHRP DFTPNMIQGDFVVVINAAQVALTGKKLDDKVYTRYTGYQGGLKTETAREALSKHPERVIEHAVFGML

PKGRQGRAMHTRLKVYAGETHPHSAQKPQVLKTQPLEVK

>DM train1752

AGKTMIPLLAFAAWSGTGKTTLLKKLIPALCARGIRPGLIKHTHHDMDVDKPGKDSYELRKAGAAQTIV ASQQRWALMTETPDEEELDLQFLASRMDTSKLDLILVEGFKHEEIAKIVLFRDGAGHRPEELVIDRHVIA VASDVPLNLDVALLDINDVEGLADFVVEWMQKQNG

>DM train1753

MKGPNLTEISKKITDSNAVLLAVKEVEALLSSIDEIAAKAIGKKIHQNNGLDTENNHNGSLLAGAYAIST LIKQKLDGLKNEGLKEKIDAAKKCSETFTNKLKEKHTDLGKEGVTDADAKEAILKTNGTKTKGAEELGKL FESVEVLSKAAKEMLANSVKELTSPVVAESPKKP

>DM\_train1755

DDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVVLEFPLQQMDSPLDSSR YCALLLPLLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMAKVLMAFYQLEILAGETILSWFS QRDTTDKGQQLRKNQQLQRFIQWLKEAEEESSEDD

>DM train1757

GSQQIKDPLNYEVEPFTFQNQDGKNVSLESLKGEVWLADFIFTNCETICPPMTAHMTDLQKKLKAENI DVRIISFSVDPENDKPKQLKKFAANYPLSFDNWDFLTGYSQSEIEEFALKSFKAIVKKPEGEDQVIHQSS FYLVGPDGKVLKDYNGVENTPYDDIISDVKSASTLK

>DM train1758

AKALEQPFDVANIPGPKMATLLEKGKPVANMIKKAKRPLLIVGPDMTDEMFERVKKFVEKDITVVATG SAITRFIDAGLGEKVNYAVLHELTQFLLDPDWKGFDGQGNYDLVLMLGSIYYHGSQMLAAIKNFAPHI RALAIDRYYHPNADMSFGNLWKKEEDYLKLLDEILAEL

>DM train1759

EFMIIYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTEGNIDDSLIGGNASAEGPEGEGTESTVITG VDIVMNHHLQETSFTKEAYKKYIKDYMKSIKGKLEEQRPERVKPFMTGAAEQIKHILANFKNYQFFIGE NMNPDGMVALLDYREDGVTPYMIFFKDGLEMEKC

>DM\_train1760

MDINVVNALAYEDFVKLFGNVVEKCPLISAAIWSYRPFKDLADIEARISEFIHSLPDSGKEGILRCHPDLA GRDLQSGTLTPESQEEQSQAGMTTLDSAEIVHMYRLNSEYKERFGFPFVICARLNNKADIVRQLSERL KNRRTAELECAIEEVKKICSLRLHSIVLSDIQTKL

>DM\_train1762

MRIQEAIAQDKTISVIIDPSQIGSTEGKPLLSMKCNLYIHEILSRWKASLEAYHPELFLDTKKALFPLLLQL RRNQLAPDLLISLATVLYHLQQPKEINLAVQSYMKLSIGNVAWPIGVTSVGIHARSAHSKIQGGRNAA NIMIDERTRLWITSIKRLITFEEWYTSNHDSLA

>DM train1763

MALVDGFLELERSSGKLEWSAILQKMASDLGFSKILFGLLPKDSQDYENAFIVGNYPAAWREHYDRAG YARVDPTVSHCTQSVLPIFWEPSIYQTRKQHEFFEEASAAGLVYGLTMPLHGARGELGALSLSVEAEN RAEANRFMESVLPTLWMLKDYALQSGAGLAFEHPVSK

>DM\_train1764

MCIIKPMDDVVKFIHEVGSLKLTPRSGWLKLGIRLPESVAEHNFRAAIIAFILALKSGESVEKACKAATAA LFHDLHEARTMDLHKIARRYVSCDEEGAREEQLSWMESKPDFSDVEVYVSDADKLELAFQGVEYSQQ VSYAIRFAENVELKTDAAKEIYRVLMERKNPVWWR

>DM\_train1765

GHMGFFSRDIQTMEDLLLHGLRDIYYAEQQITKALPKMIEQATNRDLSQGLTSHLEETQKQIERLDQV FKKLGQKPSGVNCPAIDGLIKEADETAGEIADKTVLDAAIVANAQAVEHYEIARYGTLIAWAEELGHD DIVRFLTTNLNEEKAANTKLNTVALRKGVNRKAASGS

>DM\_train1766

MHHHHHHSSGRENLYFQGMSDSGSQLGSMGSLTMKSQLQITVISAKLKENKKNWFGPSPYVEVTV DGQSKKTEKCNNTNSPKWKQPLTVIVTPVSKLHFRVWSHQTLKSDVLLGTAALDIYETLKSNNMKLEE VVVTLQLGGDKEPTETIGDLSICLDGLQLESEVVTNGETT

>DM\_train1767

SNAMRVIVTEYQPAWVEQFEEEAQALKQILKENCLKVEHIGSTSVPNLAAKPIIDFLVIVEEIEKVDLLQ WEFERIGYEYMGEFGLSGRRYLRKGPIKRTHHVHIYQFDNTQEILRHLAFRNYLRENPAIATTYGTLKKQ LAQAHPDSIDKYMDGKDAFIKKIEKEALKKYWE

>DM\_train1768

SSKKYKLSEIHHLHPEYVRVSEHFKASMKNFKIEKIKKIENSELLDKFTWKKSQMKEEGKLLFYATSRAYV ESICSNNFDSFLHETHENKYGKGIYFAKDAIYSHKNCPYDAKNVVMFVAQVLVGKFIEGNITYTSPPPQ FDSCVDTRSNPSVFVIFOKDOVYPOYVIEYTED

>DM\_train1769

MGSQVQKSDEITFSDYLGLMTCVYEWADSYDSKDWDRLRKVIAPTLRIDYRSFLDKLWEAMPAEEFV GMVSSKQVLGDPTLRTQHFIGGTRWEKVSEDEVIGYHQLRVPHQRYKDTTMKEVTMKGHAHSANL HWYKKIDGVWKFAGLKPDIRWGEFDFDRIAEDGRETFGDK

>DM train1770

GMNLQTDQTTTTADESAIRAFHRQMIDAWNRGSGEGFAAPFSETADFITFEGTHLKGRKEIAAFHQQ AFDTVVKGTRLEGEVDFVRFVNSQLALMLVVIRVILPGQTETSASRDSLPLYVVTKGDEGWQIEGLLNT RKLTLERQFFLDDFDSLSAEAQRQVTDLVASLKQSH

>DM\_train1771

GMSEALSDSGLPPVQRVVTGHDAHGRAVFKSEDVTPTRMIPSGDASFLLVWTTATVPADNNDETDG RQREAGLTLDGGSVIRVVDMLPGKESPMHRTNSIDYGIVLEGEIELELDDGAKRTVRQGGIIVQRGTN HLWRNTTDKPCRIAFILIEAPAYLHNGQPLPEDKPDHK

>DM\_train1772

MNLDNVTGGDNVPKEINVIIEISQNSCPVKYEFDKEKNLFCVDRFLPTSMYYPCNYGFIPHTCAGDGD PVDVLVASRFPVMSGAVIRARPVGVLVMHDESGEDVKILAVPTHKVDQYYNNIKDYSDFPVSFLNSIS HFFTFYKKLEEDKFVSVEGWKDVTVAEKLILSALIK

>DM train1773

MNPHPVEPRDQIAELLVESPLFSFNCAHFIAFKGFRETLHGHNYNVSLRLRGNIQGDGYVIDFSILKEKV

RKVCKQLDHHFILPMYSDVLNIQEVNDNFKITCEDNSEYSFPKRDCVQIPIKHSSTEEIGLYILNQLIEEID LPFLKTRSVNYMEVTVSESPSQKATVHRNI

>DM train1774

EKEKKNVFMRTFEAISRNFSEIFAKLSPGGSARLILENPEDPFSGGLEIEAKPAGKDVKRIEAMSGGEKAL TALAFVFAIQKFKPAPFYLFDEIDAHLDDANVKRVADLIKESSKESQFIVITLRDVMMANADKIIGVSMR DGVSKVVSLSLEKAMKILEEIRKKOGWEHGN

>DM\_train1775

LPPREDAARVARFVTHVSDWGALATISTLEAVRGRPFADVLSLSDGPPGAGSGVPYFYLSPLQLSVSN LQENPYATLTMTLAQTNFCKKHGFDPQSPLCVHIMLSGTVTKVNETEMDIAKHSLFIRHPEMKTWPS SHNWFFAKLNITNIWVLDYFGGPKIVTPEEYYNVTVO

>DM train1776

QPQSGPQTGVVFRNTVTGEALDVSQGKEGGRDTPAVKKFLETGENLYIDDKSCLRNGESLFATSCSG CHGHLAEGKLGPGLNDNYWTYPSNTTDVGLFATIFGGANGMMGPHNENLTPDEMLQTIAWIRHLY TGPKQDAVWLNDEQKKAYTPYKQGEVIPKDAKGQCKPLDE

>DM train1777

SLEKQIESYYQEIAQLIIDMIPEEWAEVRFYAQEDHDGWKIFFFHYLSASSDEWTKDIDIRDVIKVPQDE FMEKYNELSFCISDFRKDYAEAFGEPWMSFQMTFYASGKFNIDFYYDKNPFDTFLTRLAWQYEHFGTI PEDSFYKETLNEYLEEKAQGKRYPFLEPLKEEEG

>DM\_train1779

SKLQATKTLAADVIMRSPVSWKQELTLDAGRSKGASENMLAIANGGLIGSVSKVEENSTIVNLLTNTE NADKISVKIQHGSTTIYGIIIGYDKENDVLKISQLNSNSDISAGDKVTTGGLGNFNVADIPVGEVVATTH STDYLTREVTVKLSADTHNVDVIELVGNSKLVPR

>DM\_train1781

GSHMNQCPEHSQLTTLGVDGKEFPEVHLGQWYFIAGAAPTKEELATFDPVDNIVFNMAAGSAPMQ LHLRATIRMKDGLCVPRKWIYHLTEGSTDLRTEGRPDMKTELFSSSCPGGIMLNETGQGYQRFLLYNR SPHPPEKCVEEFKSLTSCLDSKAFLLTPRNQEACELSNN

>DM\_train1782

APKDNTWYTGAKLGWSQYHDTGLINNNGPTHENKLGAGAFGGYQVNPYVGFEMGYDWLGRMPY KGSVENGAYKAQGVQLTAKLGYPITDDLDIYTRLGGMVWRADTYSNVYGKNHDTGVSPVFAGGVE YAITPEIATRLEYQWTNNIGDAHTIGTRPDNGMLSLGVSYRFG

>DM train1783

SNSGEPAPVLSSPTPTDLSTFLSFPSPEKLLRLGPKVSVLIVQQTDTSDPEKVVSAFLKVASVFRDDASV KTAVLDAIDALMKKAFSCSSFNSNTFLTRLLIHMGLLKSEDKIKAIPSLHGPLMVLNHVVRQDYFPKAL APLLLAFVTKPNGALETCSFARHNLLQTLYNI

>DM\_train1784

GAMGSMAEAEGESLESWLNKATNPSNRQEDWEYIIGFCDQINKELEGPQIAVRLLAHKIQSPQEWEA LQALTVLEACMKNCGRRFHNEVGKFRFLNELIKVVSPKYLGDRVSEKVKTKVIELLYSWTMALPEEAKIK DAYHMLKROGIVOSDPPIPVDRTLIPSPPPRPKN

>DM\_train1785

AALGPSSQNVTEYVVRVPKNTTKKYNIMAFNAADKVNFATWNQARLERDLSNKKIYQEEEMPESGA GSEFNRKLREEARRKKYGIVLKEFRPEDQPWLLRVNGKSGRKFKGIKKGGVTENTSYYIFTQCPDGAFE AFPVHNWYNFTPLARHRTLTAEEAEEEWERRNKVLN

>DM train1786

SYRSTQQITDFTKEILVNGEAVTAFDRQGDLPNVVVTPNFEAGVDQVVDQLAMNDSERDTTAIIGKS LAECEALTKALKARGEQVTLIQTENQRLAPGVIVVPSFLAKGLEFDAVIVWNANQENYQREDERQLLY TICSRAMHELTLVAVGSLSPLLARVNHALYTLNEAK

>DM\_train1787

NQPDWADEAANGAHQDAWKSLKARVENVYYMVKATYKNDPVWGNDFTCVGVMANDVNEDEK SIQAEFLFMNNADTNMQFATEKVTAVKMYGYNRENAFRYETEDGQVFTDVIAYSDDNCDVIYVPGT DGNEEGYELWTTDYDNIPANCLNKFNEYAVGRETRDVFTSACLE

>DM train1788

SSQTSNFLAEQYERDRKAIINCCFSRPDHKTGEPPNNYITHVRIIEDSKFPSSRPPPDSKLENKKKRLLILS AKPNNAKLIQIHKARENSDGSFQIGRTWQLTELVRVEKDLEISEGFILTMSKKYYWETNSAKERTVFIKS LITLYIQTFEGHVPELVNWDLSLFYLDER

>DM train1789

MKEQLYTGLTEKEANQMQALLLSNDVNVSKEMDKSGNMTLSVAAADFVRAITILNNNGFPKKKFAD IEVIFPPSQLVASPSQENAKINYLKEQDIERLLSKIPGVIDCSVSLNVNNNESQPSSAAVLVISSPEVNLA PSVIQIKNLVKNSVDDLKLENISVVIKSSSGODG

>DM train1790

GSMSLFPGDIEELARRIITDFTPLGLMVSTAESCTGGLIAGALTEIAGSSAVVDRGFVTYTNDAKRDMLG VGTETLTTFGAVSRQTALQMAHGALYRSRANFAVAVTGIAGPGGGSAEKPVGLVHLATKARNGNVL HHEMRYGDIGRTEIRLATVRTALEMLIALNQAGSV

>DM train1791

MSLKTLDGKITRPTSDKVRGAIFNMIGPYFNGGRVLDLFAGSGGLAIEAVSRGMSAAVLVEKNRKAQA IIQDNIIMTKAENRFTLLKMEAERAIDCLTGRFDLVFLDPPYAKETIVATIEALAAKNLLSEQVMVVCETD KTVLLPKEIATLGIWKEKIYGISKVTVYVNEG

>DM train1792

GMGILSGNPQDEPLHYGEVFSTWTYLSTNNGLINGYRSFINHTGDEDLKNLIDEAIQAMQDENHQLE ELLRSNGVGLPPAPPDRPAARLDDIPVGARFNDPEISATISMDVAKGLVTCSQIIGQSIREDVALMFSQ FHMAKVOFGGKMLKLNKNKGWLIPPPLHSDRPIKE

>DM train1793

GMKQPNYYQDVKQFHQTFHHPGADQPTAIPLDRGVKRATWTAEEAVVEFLHQSSQNETEFLAAIET FKAGLDQAVKKSLKETYPVTEVERLVGQGDALTDALYFIMGSFVEAGLEPGPLFEIVQQANMAKLGPD GQPIFRESDQKVMKPDGWLPPEPQLEAEVVRQMKEKA

>DM train1794

MIIKDILRENQDFRFRDLSDLKHSPKLCIITCMDSRLIDLLERALGIGRGDAKVIKNAGNIVDDGVIRSAA VAIYALGDNEIIIVGHTDCGMARLDEDLIVSRMRELGVEEEVIENFSIDVLNPVGDEEENVIEGVKRLKSS PLIPESIGVHGLIIDINTGRLKPLYLDE

>DM train1795

MEEPDANGYYYHDTFEGSVGQWTARGPAEVLLSGRTAYKGSESLLVRNRTAAWNGAQRALNPRTF VPGNTYCFSVVASFIEGASSTTFCMKLQYVDGSGTQRYDTIDMKTVGPNQWVHLYNPQYRIPSDAT DMYVYVATADDTINFYIDEAIGAVAGTVIEGLEHHHHHH

>DM train1796

MAKLGIHSNDTRDAWVNKIAQLNTLEKAAEMLKQFRMDHTTPFRNSYELDNDYLWIEAKLEEKVAV LKARAFNEVDFRHKTAFGEDAKSVLDGTVAKMNAAKDKWEAEKIHIGFRQAYKPPIMPVNYFLDGER QLGTRLMELRNLNYYDTPLEELRKQRGVRVVHLQSPH

>DM train1797

GVPFFSCQRGYKGVWRGDGIMQTTCPCGAQITGHVKNGSMRIVGPRTCSNTWHGTFPINAYTTGP CTPSPAPNYSRALWRVAAEEYVEVTRVGDFHYVTGMTTDNVKCPCQVPAPEFFTEVDGVRLHRYAP ACKPLLREEVTFLVGLNQYLVGSQLPCEPEPDVAVLTSM

>DM train1798

MNADEWMTTFRENIAQTWQQPEHYDLYIPAITWHARFAYDKEKTDRYNERPWGGGFGLSRWDEK GNWHGLYAMAFKDSWNKWEPIAGYGWESTWRPLADENFHLGLGFTAGVTARDNWNYIPLPVLLP LASVGYGPVTFQMTYIPGTYNNGNVYFAWMRFQFLEHHHHHH

>DM\_train1799

GMLKILATQFNGKLQTLTKQEDELFDVVRLLAQALVGQGKVYLDAYGEFEGLYPMLSDGPDQMKRV TKIKDHKTLHAVDRVLIFTPDTERSDLLASLARYDAWHTPYSIITLGDVTETLERSIAPLALKFDKGLLPAE DGSRHGLPSLALGAFLLTHILTQLQEMTEEWE

>DM\_train1800

MSLKLISNDLRDGDKLPHRHVFNGMGYDGDNISPHLAWDDVPAGTKSFVVTCYDPDAPTGSGWW HWVVVNLPADTRVLPQGFGSGLVAMPDGVLQTRTDFGKTGYDGAAPPKGETHRYIFTVHALDIERID

**VDEGASGAMVGFNVHFHSLASASITAMFSEGGSHHHHHH** 

>DM train1801

MSTTPIDAELDLMLKRELAVPVNLVWRGLTEPELLKKWFVPKPWSISDCRVDLRPGGEFYTVMQDPE GNKFPNSGCFLEVTDEKRLIWTSALVKNYRPAVPATTSDKECAHIVMTAVIELQPTSSGTRYTACAMH NTPGQRKLHEEMGFHEGWGTTITQLEELLKQEKAY

>DM train1802

GAMGPVDEQWIEILRIQALCARYCLTINTQDGEGWAGCFTEDGAFEFDGWVIRGRPALREYADAHA RVVRGRHLTTDLLYEVDGDVATGRSASVVTLATAAGYKILGSGEYQDRLIKQDGQWRIAYRRLRNDR LVSDPSVAVNVADADVAAVVGHLLAAARRLGTQMSDT

>DM\_train1803

MAARTDNSIVVNAPFELVWDVTNDIEAWPELFSEYAEAEILRQDGDGFDFRLKTRPDANGRVWEWV SHRVPDKGSRTVRAHRVETGPFAYMNLHWTYRAVAGGTEMRWVQEFDMKPGAPFDNAHMTAHL NTTTRANMERIKKIIEDRHREGORTPASVLPTELHAQOLLL

>DM train1804

MDPSQTPDANASISVSYKCGVKDGTKNTIRATINIKNTGTTPVNLSDIKVRYWFTSDGNEQNNFVCD YAAFGTDKVKGIVKKIENSVPGADTYCEISFTEDAGRLAPGGSTGTIPFRIEGAAEYDQTDDYSYNSEM SDDFGDNTKITAYIKDKLKYGVEAAALEHHHHHH

>DM train1806

AAVILESIFLKRSQQKKKTSPLNFKKCLFLLTVHKLSYYEYDFERGRRGSKKGSIDVEKITCVETVVPEKNP PPERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTEELRKRWIHQLKNVIRYNSDLVQKYHP CFWIDGQYLCCSQTAKNAMGCQILEN

>DM train1807

RNRIKKVTERLPLPPNARRVEDPEMNMSREVVEDPGVPGTQDVTFAVAEVNGVETGRLPVANVVVT PAHEAVVRVGTKPGTEVPPVIDGSIWDAIAGCEAGGNWAINTGNGYYGGVQFDQGTWEANGGLRY APRADLATREEQIAVAEVTRLRQGWGAWPVCAARAGAR

>DM\_train1808

SVLQAQMAAQQLPVIGGIAIPELGINLPIFKGLGNTELIYGAGTMKEEQVMGGENNYSLASHHIFGITG SSQMLFSPLERAQNGMSIYLTDKEKIYEYIIKDVFTVAPERVDVIDDTAGLKEVTLVTCTDIEATERIIVKG ELKTEYDFDKAPADVLKAFNHSYNQVST

>DM\_train1809

MGFEDGFYTILHLAEGQHPNSKIPGGMYASSKDGKDVPVTAEPLGPQSKIRWWIARDPQAGDDMYT ITEFRIDNSIPGQWSRSPVETEVPVYLYDRIKAEETGYTCAWRIQPADHGADGVYHIVGNVRIGSTDW ADLREEYGEPQVYMKPVPVIPNVYIPRWFILGYEE

>DM train1810

KNASVITVGNEILKGRTVNTNAAFIGNFLTYHGYQVRRGFVVMDDLDEIGWAFRVALEVSDLVVSSG GLGPTFDDMTVEGFAKCIGQDLRIDEDALAMIKKKYGQADLTPQRLKMAKIPPSCRPIENPVGTAPGLI CAVGGKKVIILPGVPKEMEALLKAMEKDIIIPD

>DM\_train1811

MARYINITLEKRGVTCKALLLDDVAPRTSKAVWDALPQSSQVFHGKYARNEIYNLVPAFAPKEPGAEN TTVTPIPGDVCYFTFTSNDLKTPSHGYEADSGTDEVQTIVDLAVFYGRNNLLLNGDTGWVPGNVFATI VEGLDEMAAACQDIWMGGARDETLTFSRAEDTA

>DM\_train1812

MGSDKIHHHHHHMIQSYPVERSRTIQTRLVLPPDTNHLGTIFGGKVLAYIDEIAALTAMKHANSAVVT ASIDSVDFKSSATVGDALELEGFVTHTGRTSMEVYVRVHSNNLLTGERTLTTESFLTMVAVDESGKPKP VPQVEPQTEEKRLYETAPARKENRKKRAALR

>DM\_train1813

AKITKVQVGEALVGDGNEVAHIDLIIGPRGSPAETAFCNGLVNNKHGFTSLLAVIAPNLPCKPNTLMF NKVTINDARQAVQMFGPAQHGVAMAVQDAVAEGIIPADEADDLYVLVGVFIHWEAADDAKIQKY NYEATKLSIQRAVNGEPKASVVTEQRKSATHPFAANA

>DM\_train1815

GPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRARSLTQKPGSKSTPAPYVKVYLLENGACIAKK KTRIARKTLDPLYQQSLVFDESPQGKVLQVIVWGDYGRMDHKCFMGVAQILLEELDLSSMVIGWYKL FPPSSLVDPTLAPLTRRASQSSLESSSGPPCIRS

>DM\_train1816

ASVRIREAKEGDCGDILRLIRELAEFEKLSDQVKISEEALRADGFGDNPFYHCLVAEILPAPGKLLGPCVV GYGIYYFIYSTWKGRTIYLEDIYVMPEYRGQGIGSKIIKKVAEVALDKGCSQFRLAVLDWNQRAMDLYK ALGAQDLTEAEGWHFFCFQGEATRKLAGK

>DM\_train1817

GLFDKLKSLVSDDKKDTGTIEIIAPLSGEIVNIEDVPDVVFAEKIVGDGIAIKPTGNKMVAPVDGTIGKIFE TNHAFSIESDSGVELFVHFGIDTVELKGEGFKRIAEEGQRVKVGDTVIEFDLPLLEEKAKSTLTPVVISNM DEIKELIKLSGSVTVGETPVIRIKK

>DM train1818

MKVIEFHVVGNSLNQKPNKKILMWLVGLQNVFSHQLPRMPKEYITRLVFDPKHKTLALIKDGRVIGGI CFRMFPSQGFTEIVFCAVTSNEQVKGYGTHLMNHLKEYHIKHDILNFLTYADEYAIGYFKKQGFSKEIKI PKTKYVGYIKDYEGATLMGCELNPRIPYTE

>DM\_train1819

MLRSSNDVTQQGSRPKTKLGGSSMGIIRTCRLGPDQVKSMRAALDLFGREFGDVATYSQHQPDSDY LGNLLRSKTFIALAAFDQEAVVGALAAYVLPKFEQPRSEIYIYDLAVSGEHRRQGIATALINLLKHEANA LGAYVIYVQADYGDDPAVALYTKLGIREEVMH

>DM\_train1820

LLKLEKELLKQIKLDPSPQTIYKWIKDNISPKLHVDKGFVNILMTSFLQYISSEVNPPSDETDSSSAPSKEQ LEQEKQLLLSFKPVMQKFLHDHVDLQVSALYALQVHCYNSNFPKGMLLRFFVHFYDMEIIEEEAFLAW KEDITQEFPGKGKALFQVNQWLTWLETA

>DM train1822

MFIKAERLLIRKFEFKDWEAVHEYTSDSDVMKYIPEGVFTEEDTRNFVNKNMGENAKNFPVILIGENILV

GHIVFHKYFGEHTYEIGWVFNPKYFNKGYASEAAQATLKYGFKEMKLHRIIATCQPENTPSYRVMEKIG MRREGYFKKCIPHGNEWWDEYYYAILEEE

>DM train1823

MIDEPTGLYNRLRLQEDVSLRLQRDGALTVIAADLLPLALLNTIIRTLGYPFSNDLMLEARDRIRAELPDF TLYKISPTRFGLLLPRQQQEETESVCLRLLRAFESPVVCRGIPIKANVGLGVLPLADDTLDGDQDWLRLV VSAADDARDRGVGWARYNPPLDOAOOR

>DM\_train1824

MVRYPLEPVLSIKKDRVDRAEKVVKEKRRLLELEQEKLRERESERDKVKNHYMQKIRQLREQLDDGTTS DAILKMKAYIKVVAIQLSEEEEKVNKQKENVLAASKELERAEVELTKRRKEEEKTRLHKEEWMKEALKEE AROEEKEODEMGOLLHOLHKOKORESGEN

>DM\_train1825

MSLVEKQSALESKARSWLIERGVEIDDIAELVLFLQQKYHPGLELDICRQNVEHVLRKREVQNAVLTGI QLDVMAEKGELVQPLQNIISADEGLYGVDEILALSIVNVYGSIGFTNYGYIDKVKPGILAKLNEHDGIAV HTFLDDIVGAIAAAAASRLAHSYHDDIVN

>DM train1826

MALLWQLARNAEGDDPTNLESALIGKPVPKFRLESLDNPGQFYQADVLTQGKPVLLNVWATWCPT CRAEHQYLNQLSAQGIRVVGMNYKDDRQKAISWLKELGNPYALSLFDGDGMLGLDLGVYGAPETFL IDGNGIIRYRHAGDLNPRVWEEEIKPLWEKYSKEAAQ

>DM\_train1827

MSLAEVGSKSVLFVCLGNICRSPIAEAVFRKLVTDEKVSDNWAIDSSAVSDWNVGRPPDPRAVSCLR NHGISTAHKARQITKEDFATFDYILCMDESNLRDLNRKSNQVKNCKAKIELLGSYDPQKQLIIEDPYYG NDSDFEVVYQQCLRCCKAFLEKTYEGHHHHHH

>DM\_train1828

DIEQKQAEIIDQLVKRASTCKSEALGPLIIEATSHPSLFAFSEILALPNVAQLEGTTDSVYLDLLRLFAHGT WGDYKCNATRLPHLSPDQILKLKQLTVLTLAESNKVLPYDTLMVELDVSNVRELEDFLINECMYAGIVR GKLDQLKRCFEVPFAAGRDLRPGQLGN

>DM\_train1829

MSNMQLDTLRRIVQEINSSVSLHDSLDIMVNQVADAMKVDVCSIYLLDERNQRYLLMASKGLNPES VGHVSLQLSEGLVGLVGQREEIVNLENASKHERFAYLPETGEEIYNSFLGVPVMYRRKVMGVLVVQNK OPODFSEAAESFLVTLCAQLSGVIAHAHAVGNID

>DM train1830

MELTLYNGEKKTFYSRPNNHDNAWLNAILQLFRYVEEPFFDWVYSSPENLTLEAIKQLEDLTGLELHEG GPPALVIWNIKHLLHTGIGTASRPSEVCVVDGTDMSLADFHAGIFLKGQEHAVFACVTSNGWYAIDD EDFYPWTPDPSDVLVFVPYDQEPLNGEWKAK

>DM\_train1831

KPGAMYRNSSKPAYTRREYISGIPGKKIAQFDMGNNGAGPTYPAQVELVVEKPVQIRHNALEAARVA ANRYVQNSGAAANYKFRIRKFPFHVIRENKAAAAAAAAAAAAAAAGMRAPFGKPVGTAARVHGANHIFI AWVNPDPNVEEAWRRAKMKVTPTINIDSSPAGNA

>DM\_train1833

MASYAELFDIGEDFAAFVGHGLATEQGAVARFRQKLESNGLPSALTERLQRIERRYRLLVAGEMWCP DCQINLAALDFAQRLQPNIELAIISKGRAEDDLRQRLALERIAIPLVLVLDEEFNLLGRFVERPQAVLDG GPQALAAYKAGDYLEHAIGDVLAIIEGAAR

>DM\_train1834

SNAMTFNQEQDYWAGYKANERALIIQTWSGFGRYAPDHLYPPHILPLDTDNETLGTTVLQALANSR TFVYDSPEDQDFFDTEKIRQRYEDWVAKLCGNLGYKTRRALFKNMMSVDIWLHNGCLKISPSRHVKL EAWDAIDADDVILSLDNSPEEIGAGLKLALSRCR

>DM\_train1835

MMFLRQEDFATVVRSTPLVSLDFIVENSRGEFLLGKRTNRPAQGYWFVPGGRVQKDETLEAAFERLT MAELGLRLPITAGQFYGVWQHFYDDNFSGTDFTTHYVVLGFRFRVAEEELLLPDEQHDDYRWLTPDA LLASENVHANSRVYFNNDPRAIIGLNKKEVKNV

>DM train1836

GSHGMADEEKLPPGWEKAMSRSSGRVYYFNHITNASQWERPSGNSSSGGKNGQGEPARVRCSHLL VKHSQSRRPSSWRQEKITRTKEEALELINGYIQKIKSGEEDFESLASQFSDCSSAKARGDLGAFSRGQM OKPFEDASFALRTGEMSGPVFTDSGIHIILRTE

>DM train1837

MGMIGYFAEIDSEKINQLLESTEKPLMDNIHDTLSGLRRLDIDKRWDFLHFGLTGTSAFDPAKNDPLSR AVLGEHSLEDGIDGFLGLTWNQELAATIDRLESLDRNELRKQFSIKRLNEMEIYPGVTFSEELEGQLFASI MLDMEKLISAYRRMLRQGNHALTVIVG

>DM train1838

MKGLTEKLMILSHQSIKNLLGKVILNYSEENVRENGYDLRICGDKYYELVQGAELPEKKATLREIEFKERA ILSANHTYLFESCEEFNMPADLAVLITLKSTLARNGFLAPPTVIDAGYKGKVNVAITAVYNSSLKKGMAT HHLIFLKLDKPTERLYNGKYQGGILI

>DM train1839

MADEATRRVVSEIPVLKTNAGPRDRELWVQRLKEEYQSLIRYVENNKNADNDWFRLESNKEGTRWF GKCWYIHDLLKYEFDIEFDIPITYPTTAPEIAVPELDGKTAKMYRGGKICLTDHFKPLWARNVPKFGLAH LMALGLGPWLAVEIPDLIQKGVIQHKEKCNQ

>DM train1842

GAMDPREVILCKDQDGKIGLRLKSIDNGIFVQLVQANSPASLVGLRFGDQVLQINGENCAGWSSDK AHKVLKQAFGEKITMTIRDRPFERTITMHKDSTGHVGFIFKNGKITSIVKDSSAARNGLLTEHNICEING ONVIGLKDSQIADILSTSGTVVTITIMPAF

>DM train1843

FSDETLDKVPKSEGYCSRILRAQGTRREGYTEFSLRVEGDPDFYKPGTSYRVTLSAAPPSYFRGFTLIALR ENREGDKEEDHAGTFQIIDEEETQFMSNCPVAVTESTPRRRTRIQVFWIAPPAGTGCVILKASIVQKRII YFQDEGSLTKKLCEQDSTFDGVTDK

>DM train1844

MATASHNIDDILQLKDDTGVITVTADNYPLLSRGVPGYFNILYITMRGTNSNGMSCQLCHDFEKTYH AVADVIRSQAPQSLNLFFTVDVNEVPQLVKDLKLQNVPHLVVYPPAESNKQSQFEWKTSPFYQYSLV PENAENTLQFGDFLAKILNISITVPQAFNVQE

>DM train1845

MAMSRKRVRAEDIHYWLLKSEPHKFSIDDLAKQKTSPWDGVRNYAARNNMRAMSVGDKVLFYHSN TKEPGVAGLAEVVRLAYDDFTALDKTSEYFDPKATKEKNPWKMVDVKFVARWDTVLTLHELKSRREL QKMALFTQRRLSVQPVSASEYAYILRMNEEQQRK

>DM train1846

MSKNIGLNAIEMSYLRQSLSLSAAQVGQLTNHSEAEVLAWENAETQAPELAQKKLLDIDDIIEMQVL NTTDGIEALFKKEPKRHLAFVVYPTQAIYTQYNPEFLSSLPLTELYNTAAWRIKKECKLVLEVDVSLINLN VEAYKAYREONGLSESRESRAKWAATOL

>DM train1847

MSGELRVRRASSWELDLILKEAEKYGELLHEFFCVVEGKYRDVYAVNEEVWKIIEDINMRPYSLGTFVG TIRVDENLVEKFYPNLEFFSLIKLEKNYVILGPKASFLFTTGKDAPKEAVREIKWQGSKRVVVLNDLGDIIG IGLINPKSDRRFIKNLKDVGEFLRR

>DM train1848

MAQEDVTAVATNGAGPVETHLVFTEFKQMLLVEAQKVGDAVTFYKSAFGAIESGHSLYPKRKLDQEL PHVLSSELNLAGSSFVVCDVSSLPGFSTAKSEGSGVTFLLGTKDAEAAVAKAVDAGAVKVEVTEAEVEL GFKGKVTDPFGVTWIFAEKKTVITDENKEV

>DM\_train1849

TPEKEPLKPGDILVYAQGGGEPKPIRLEELKPGDPFVLAYPMDPKTKVVKSGEAKNTLLVARFDPEELAP EVAQHAAEGVVAYSAVCTHLGCIVSQWVADEEAALCPCHGGVYDLRHGAQVIAGPPPRPVPQLPV RVEDGVLVAAGEFLGPVGVQASAGAYTWRV

>DM\_train1850

CDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVLHEMIQQIFNLFST KDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVTETPLMNEDSILAVRKYFQRITLYLKEKKYSPC

AWEVVRAEIMRSFSLSTNLQESLRSKE

>DM train1852

MNAEINPLHAYFKLPNTVSLVAGSSEGETPLNAFDGALLNAGIGNVALIRISSIMPPEAEIVPLPKLPMG ALVPTAYGYIISDVPGETISAAISVAIPKDKSLCGLIMEYEGKCSKKEAEKTVREMAKIGFEMRGWELDRI ESIAVEHTVEKLGCAFAAAALWYK

>DM train1853

MPIGHSREVLVRLRDILALLADGCKTTSLIQQRLGLSHGRAKALIYVLEKEGRVTRVAFGNVALVCLSM DQYRQLVDGMIREVERLVTTNKLKFISPPRLHDLIIKDPQARKFFSSIIPIAHRTAIILSFLNHLLKMIYGEP YVKTDETVYLTANRKVHIEPPAK

>DM\_train1854

FELPSVPFPAPGSDEILFVVRDTTFNTNAPVNVEVSDFWTNRNVKRKPYKDVYGQSVFTTSGTKWLTS YMTVNINDKDYTMAAVSGYKHGHSAVFVKSDQVQLQHSYDSVASFVGEDEDSIPSKMYLDETPEYF VNVEAYESGSGNILVMCISNKESFFECKHQQ

>DM train1855

MSLLTEVETYVLSIIPSGPLKAEIAQRLEDVFAGKNTDLEVLMEWLKTRPILSPLTKGILGFVFTLTVPSER GLQRRRFVQNALNGNGDPNNMDKAVKLYRKLKREITFHGAKEISLSYSAGALASCMGLIYNRMGAV TTEVAFGLVCATCEQIADSQHRSHRQ

>DM train1856

MRRFLALLLVLTLWLGFTPLASADVAGLVPCKDSPAFQKRAAAAVNTTADPASGQKRFERYSQALCG EDGLPHLVVDGRLSRAGDFLIPSVLFLYIAGWIGWVGRAYLIAVRNSGEANEKEIIIDVPLAIKCMLTGF AWPLAALKELASGELTAKDNEITVSPR

>DM train1857

LGSMESTQQMAVSIINSSFEAAVVAATSALENMGIEYDYQDIYSRVKNKFDFVMDDSGVKNNPIGKA ITIDQALNNKFGSAIRNRNWLADTSRPAKLDEDVNKLRMMLSSKGIDQKMRVLNACFSVKRIPGKSS SIIKCTKLMRDKLERGEVEVDDSFVDEKME

>DM\_train1859

GMKTIDLADIQAFLYRESRLLDDKAWDAWLDCYRADAVFWMPSWDDADALVTDPQREISLIYYPNR QGLEDRVFRIKTERSSATVPDTRTSHNIANVERESADGDVHTVRFNWHTLSYRYKTVSSYFGMSRYAI DFSGDAPKIVSKYVVLKNDYINQLIDIYHI

>DM\_train1860

MELYLIRHGIAEAQKTGIKDEERELTQEGKQKTEKVAYRLVKLGRQFDLIVTSPLIRARQTAEILLASGLS CQLEESNHLAPNGNIFNWLDYWLKPKNFPENAQIAIVGHEPCLSNWTEILLWGEAKDSLVLKKAGMI GLKLPEIGSPVGRSQMFWLTPPRYLL

>DM train1861

MGSDKIHHHHHHMRKAWVKTLALDRVSNTPVVILGIEGTNRVLPIWIGACEGHALALAMEKMEFPR PLTHDLLLSVLESLEARVDKVIIHSLKDNTFYATLVIRDLTYTDEEDEEAALIDIDSRPSDAIILAVKTGAPIF VSDNLVEKHSIELEVNERDLINSR

>DM\_train1862

MARRILSVLLENESGALSRVIGLFSQRGYNIESLTVAPTDDPTLSRMTIQTVGDEKVLEQIEKQLHKLVD VLRVSELGQGAHVEREIMLVKIQASGYGRDEVKRNTEIFRGQIIDVTPSLYTVQLAGTSGKLDAFLASIR DVAKIVEVARSGVVGLSRGDKIMR

>DM\_train1863

GSHMSPKIVDAGTATVPHTMSTMKTADNRPASVYLKKDKPTLIKFWASWCPLCLSELGQAEKWAQD AKFSSANLITVASPGFLHEKKDGEFQKWYAGLNYPKLPVVTDNGGTIAQNLNISVYPSWALIGKDGDV QRIVKGSINEAQALALIRNPNADLGSLKHS

>DM\_train1864

GILAEAHGTRPDLTDQPLPDADHTWYTDGSSLLQEGQRKAGAAVTTETEVIWAKALPAGTSAQRAEL IALTQALKMAEGKKLNVYTDSRYAFATAHLTSEGKEIKNKDEILALLKALFLPKRLSIIHCPGHQKGHSAE ARGNRMADQAARKAAITETPDTSTLL

>DM\_train1865

GEFETLEQLKESLKKEGKEIYDVEMKESMREQLLEKLPEIVEIEISDRTLEILVNEAINRLKREGRYEQIVSSY ESEEKFREELKERILDDIKRDRVIEVLAQEKGISVNDEELEKEAEELAPFWGISPDRAKSLVKARQDLREEL RWAILKRKVLDLLLOEVE

>DM\_train1866

PRILGRNIGSHHVRVEHFMNHSITTLAKDTPLEEVVKVVTSTDVTEYPLVESTESQILVGIVQRAQLVQA LQAEPPSRAPGHQQCLQDILARGCPTEPVTLTLFSETTLHQAQNLFKLLNLQSLFVTSRGRAVGCVSW VEMKKAISNLTNPPAPKEFLEVLFQG

>DM\_train1867

MFHILRLESTVDLSEPLKDNGIIVFQSDKLDLEPSPNLGPTGIDNTNVNLINAKGDVLLHIGIRRRENAFV FNSIPYGESRGPEERIPLEGTFGDRRDPSITIFDHPDRYQIMIDYKTVYYYKKRLEGRCEKVSYKINEGQTP PFSDVLGVTVLYFANVMPRAN

>DM train1868

LPLDERAFEKTLTPIIQEYFEHGDTNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSKLLSD LCGTVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYIDSYKGTVDCVQARA ALDKATVLLSMSKGGKRKDSVWGSGGG

>DM\_train1869

MGGSHHHHHHGMASSSDGHNGLGKGFGDHIHWRTLEDGKKEAAASGLPLMVIIHKSWCGACKAL KPKFAESTEISELSHNFVMVNLEDEEEPKDEDFSPDGGYIPRILFLDPSGKVHPEIINENGNPSYKYFYVS AEQVVQGMKEAQERLTGDAFRKKHLEDEL

>DM train1870

MTVNLEEKRPEIVGPEKVQSPYPIRFEGKVVHGFGRGSKELGIPTANISEDAIQELLRYRDSGVYFGYAM VQKRVFPMVMSVGWNPYYKNKLRSAEVHLIERQGEDFYEEIMRVIVLGYIRPELNYAGLDKLIEDIHTD IRVALNSMDRPSYSSYKKDPFFKV

>DM train1871

GSREEPSDLEELEQFAKTFKQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPL

LEKWLNDAENLSSDSSLSSPSALNSPGIEGLSRRRKKRTSIETNIRVALEKSFLENQKPTSEEITMIADQL NMEKEVIRVWFCNRRQKEKRINP

>DM train1872

MTNNDTTLQLSSVLNRECTRSRVHCQSKKRALEIISELAAKQLSLPPQVVFEAILTREKMGSTGIGNGIA IPHGKLEEDTLRAVGVFVQLETPIAFDAIDNQPVDLLFALLVPADQTKTHLHTLSLVAKRLADKTICRRL RAAOSDEELYOIITDTEGTPDEA

>DM\_train1873

GMSVAAEVAQVAQSAIDDFNAAYGLCLDDDRLEQWPTLFVDDCLYQVIARENVDNGLPAAVMYC DSKGMLADRVVALRKANVFPEHFNRHLIGRAVITGVEGDQVSAEASYVVFQTRNDGETRIYNAGKYV DRFDLSGGTVRLKSRTCIYDTLRIATLLATPI

>DM train1874

GMLDNAIPQGFEDAVELRRKNRETVVKYMNTKGQDRLRRHELFVEDGCGGLWTTDTGSPIVIRGKD KLAEHAVWSLKCFPDWEWYNIKVFETDDPNHFWVECDGHGKILFPGYPEGYYENHFLHSFELDDGKI KRNREFMNVFOOLRALSIPVPOIKREGIPT

>DM train1875

QSRERLVKWLQDAYAMEKEAETMMAAMASRIEHYPELKRRIEQHVEETQQQSAGVQRCLELLNGSI PTAKGMLSSVLASMHAAGNSMMTDEVTKGVGISYAFEHLEIASYRALVVAARSAGEQEVAQICEDIL QQEIEMAEWLIEHQEAIVVAFLEREQLEGV

>DM\_train1876

GHMNSKNTICLWYDSAALEAATFYAETFPDSAVLAVHRAPGDYPSGKEGDVLTVEFRVMGIPCLGLN GGPAFRHSEAFSFQVATDDQAETDRLWNAIVDNGGEESACGWCRDKWGISWQITPRVLSEAIASPD RAAARRAFEAMMTMGRIDIATIEKAFKGGS

>DM\_train1877

MSLRVRIAVIGKLDGFIKEGIKHYEKFLRRFCKPEVLEIKRVHRGSIEEIVRKETEDLTNRILPGSFVMVMD KRGEEVSSEEFADFLKDLEMKGKDITILIGGPYGLNEEIFAKAHRVFSLSKMTFTHGMTVLIVLEQIFRAFK IIHGENYHYEGGSHHHHHH

>DM\_train1878

GMTLPPYHTPLPAETLRALSIPAPWTFGLADRVRFGELDAIGHVNHTAYLRWYESFRLPFLKARHVTDY GPTSPRLVLKQVHCTYLAEMGMGEDYVITGRVSNFRTTSFTMEFACWRLGDAVECTSEGSAVVVLLN RDGSGRYPIPEAGRASFVTEDGVLAAG

>DM train1879

GMAFMEKIFPDILEAIRNEEIIKESKKIPMPYFGLFALVIFDKVKELGSETSLYEIGEEFGKMLSPKNIEELKKI FKLMNFGDLEIDENKILLKNPPYKIKLSNPPYQWVSKEEPIHDFIAGILAGCLEEIFYYYFVVNEVECVSQ GKDKCVFEVKEVDELNK

>DM\_train1880

ATPAAQASDDRYEVTQQRNPDAACLDCHKPDTEGMHGKHASVINPNNKLPVTCTNCHGQPSPQH REGVKDVMRFNEPMYKVGEQNSVCMSCHLPEQLQKAFWPHDVHVTKVACASCHSLHPQQDTMQ TLSDKGRIKICVDCHSDQRTNPNFNPASVPLLKEOP

>DM\_train1881

KHHHHHHIKPGALCVIDTPEGKGTGFFSGNDIVTAAHVVGNNTFVNVCYEGLMYEAKVRYMPEKDI AFITCPGDLHPTARLKLSKNPDYSCVTVMAYVNEDLVVSTAAAMVYGNTLSYAVRTQDGMSGAPVC DKYCRVLAVHQTNTGYTGGAVIIDPTDFHPV

>DM\_train1882

MSVMYKKILYPTDFSETAEIALKHVKAFKTLKAEEVILLHVIDEREIKKRDIFSLLLGVAGLNKSVEEFENEL KNKLTEEAKNKMENIKKELEDVGFKVKDIIVVGIPHEEIVKIAEDEGVDIIIMGSHGKTNLKEILLGSVTEN VIKKSNKPVLVVKRKNS

>DM\_train1883

MPETDFEEKMILIRRTARMQAGGRRFRFGALVVVGDRQGRVGLGFGKAPEVPLAVQKAGYYARRNM VEVPLQNGTIPHEIEVEFGASKIVLKPAAPGTGVIAGAVPRAILELAGVTDILTKELGSRNPINIAYATME ALRQLRTKADVERLRKGEAHAQAQG

>DM train1884

LSSPADSYNEGVKLQPQEISPPPTANLDRSNDKVYENVTGLVKAVIEMSSKIQPAPPEEYVPMVKEVG LALRTLLATVDETIPLLPASTHREIEMAQKLLNSDLGELINKMKLAQQYVMTSLQQEYKKQMLTAAHA LAVDAKNLLDVIDQARLKMLGQTRPH

>DM train1885

MSEQAPAPKRGRRFKEQTPVQRALGLLVHREHSKKELNRKLQARGIEPEAAQAAVERLAGEGWQDD VRFAASVVRNRASSGYGPLHIRAELGTHGLDSDAVSAAMATFEGDWTENALDLIRRRFGEDGPVDLA ORRKAADLLARRGFDGNSIRLATRFDLED

>DM train1886

LIEGSERLSGLTDVDEVIKDLSRLLRKLVKTRWIAVYFFDRERRDFAPARSTGLPASFLPVFREMPLAPDKI PLLKSMLRKRQHLMLTDPGSSDLLTPKLRKLLRNLCVLAVPMVVRTQVIGAVFMARTRDNPPFSDAET AIIRDLVSHAALVVSHMQLFDE

>DM train1887

MDFRIGQGYDVHQLVPGRPLIIGGVTIPYERGLLGHSDADVLLHAITDALFGAAALGDIGRHFSDTDP RFKGADSRALLRECASRVAQAGFAIRNVDSTIIAQAPKLAPHIDAMRANIAADLDLPLDRVNVKAKTN EKLGYLGRGEGIEAQAAALVVREAAA

>DM train1888

MPKSEIRKLLQEIKKQVDNPGNSSTTEIKKMASEAGIDEQTAEEIYHLLTEFYQAVEEHGGIEKYMHSNI SWLKIELELLSACYQIAILEDMKVLDISEMLSLNDLRIFPKTPSQLQNTYYKLKKELIQVEDIPKNKPGRKR KTOKNTKKEKTNIFGKVVPA

>DM train1889

EDYSVVNRFESHGGGWGYSAHSVEAIRFSADTDILLGGLGLFGGRGEYTAKIKLFELGPDGGDHETDG DLLAETDVLAYDCAAREKYAMMFDEPVLLQAGWWYVAWARVSGPSSDCGSHGQASITTDDGVIFQ FKSSKKSNNGTDVNAGQIPQLLYRLPTSD

>DM train1890

PRAAGHSEEVLEREASFSLTTIDGEVISLNNVGGDVVILWFMAAWCPSCVYMADLLDRLTEKYREISVI AIDFWTAEALKALGLNKPGYPPPDTPEMFRKFIANYGDPSWIMVMDDGSLVEKFNVRSIDYIVIMDKS SNVLYAGTTPSLGELESVIKSVQGG

>DM train1891

GMGGSNMKLDFSVAVHSILYLDAHRDSKVASRELAQSLHLNPVMIRNILSVLHKHGYLTGTVGKNGG YQLDLALADMNLGDLYDLTIPPTISYARFITGPSKTDEQADQSPIAANISETLTDLFTVADRQYRAYYH QFTMADLQADLNHHGTFLQHEQDSES

>DM train1892

GMDTRKLLLTAQEISRMKGEHKVHFLNPGAVRVNKSLGDAVGLRHMGIHLIQIEPGKESTEYHLHHYE EEAVYVLSGKGTLTMENDQYPIAPGDFVGFPCHAAAHSISNDGTETLVCLVIGQRLDQDVVDYPNQ HKRLYRNNGEWNLVDMADIRVLREPTOK

>DM train1893

TDVNECLDPTTCISGNCVNTPGSYICDCPPDFELNPTRVGCVDTRSGNCYLDIRPRGDNGDTACSNEI GVGVSKASCCCSLGKAWGTPCEMCPAVNTSEYKILCPGGEGFRPNPITVILEDIDECQELPGLCQGGK CINTFGSFQCRCPTGYYLNEDTRVCD

>DM train1894

ASDEEIQDVSGTWYLKAMTVDREFPEMNLESVTPMTLTTLEGGNLEAKVTMLISGRCQEVKAVLEKT DEPGKYTADGGKHVAYIIRSHVKDHYIFYSEGELHGKPVRGVKLVGRDPKNNLEALEDFEKAAGARGL STESILIPRQSETCSPGSAWSHPQFEK

>DM\_train1895

MSFGGKSMSEHSAIVTWKRKDSEAFTDNQYSRAHTWEFDGGSKILASASPHVVPVPLSVEANVDPEE AFVAALSSCHMLVFLSIAAKQRYLVESYTDNAVGILGKNSKGKTSVTKVVLRPQVVFSGTSKPTLQQLE KMHHLAHENCFIANSVETEVVTEIIA

>DM\_train1896

VKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMKKIQDCYVENGLISRVLDGLVMTTISS SKDCMGEAVQNTVEDLKLNTLGREICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENARILKNC

## **VDAKMTEEDKENALSLLDKIYTSPLC**

>DM train1897

MTSSEPAHGATPKRSPSEGSADNAALCDALAVEHATIYGYGIVSALSPPGVNFLVADALKQHRHRRD DVIVMLSARGVTAPIAAAGYQLPMQVSSAADAARLAVRMENDGATAWRAVVEHAETADDRVFAST ALTESAVMATRWNRVLGAWPITAAFPGGDE

>DM train1898

GPMPQLTLDKTDIKILQVLQENGRLTNVELSERVALSPSPCLRRLKQLEDAGIVRQYAALLSPESVNLG LQAFIRVSIRKAKDAREDFAASVRKWPEVLSCFALTGETDYLLQAFFTDMNAFSHFVLDTLLSHHGVQ DAQSSFVLKEIKHTTSLPLNHLLKE

>DM\_train1900

MAQLTHINAAGEAHMVDVSAKAETVREARAEAFVTMRSETLAMIIDGRHHKGDVFATARIAGIQAA KRTWDLIPLCHPLMLSKVEVNLQAEPEHNRVRIETLCRLTGKTGVEMEALTAASVAALTIYAMCKAVQ KDMVIGPVRLLAKSGGKSGDFKVEADD

>DM train1901

GSSSTLTKELIKDAAEKCCTRNRQECCIEIMKFGTPIRCGYDRDPKLPGYVYKCLQNVLFAKEPKKKINL DDSVCCSVFGNDQEDSGRRCENRCKNLMTSPSIDAATRLDSIKSCSLLDNVLYKCFEKCRSLRKDGIKI EVLQFEEYCEATFIQKRTFRGV

>DM train1902

SVSVDLNVDPSLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWLHDTLTETTDYAGLI IPPAPTKPDFDGPREKMQKLGEGEGSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRLSSHPVLSK DRNFHVFLEYDQDLSVRRKNTK

>DM train1903

MAGTSTNTQTTGTSQTIEVGLWGGPGGNAWDDGSYTGIREINLSHGDAIGAFSVIYDLNGQPFTGPT HPGNEPSFKTVKITLDFPNEFLVSVSGYTGVLARLATGKDVIRSLTFKTNKKTYGPYGKEEGTPFSLPIEN GLIVGFKGRSGFVVDAIGFHLSL

>DM\_train1904

DLYFQGGSGMQCEEKLEVFENGFKDEKFNVEVKFYGNDARKVLLAMIYELYLPEYGREYVYPFECAKE FWNIYLEGEEIQDEEFQLKPIKFTSEQVIKKLQEEIKKIKPPLEIKIEEAKIYKTKEGYLAVGNYFILDPRGRLFI FNKPSIANKILKYIWKW

>DM\_train1905

SLDDHTRDPTVKAPDGNPSGWRTDGQWEHETLRRAVVHGVRLYNSGEFHESHDCFEDEWYNYGR GNTESKFLHGMVQVAAGAYKHFDFEDDDGMRSLFRTSLQYFRGVPNDYYGVDLLDVRTTVTNALS DPSALHGWQIRLDGEYPTCRPEDIEFAESLEH

>DM train1907

MSSLQSTRERVLGTPRRRYKVLVAKMGLDGHDRGAKVVARALRDAGFEVVYTGLRQTPEQVAMAA VQEDVDVIGVSILNGAHLHLMKRLMAKLRELGADDIPVVLGGTIPIPDLEPLRSLGIREIFLPGTSLGEIIE KVRKLAEEKRMREEAEASEQVGQA

>DM\_train1908

MEKTDEYLLARFKGDGVKYKAKLIGIDDVPDARGDKMSQDSMMKLKGMAAAGRSQGQHKQRIWV NISLSGIKIIDEKTGVIEHEHPVNKISFIARDVTDNRAFGYVCGGEGQHQFFAIKTGQQAEPLVVDLKDL FQVIYNVKKKEEDKKKVEEANKAEEN

>DM\_train1909

MPSTDFADIPAAKKMKIDTCVLRFAKLTENALEPVRGSAKAAGVDLRSAYDVVVPARGKAIVKTDLQV QVPEGSYGRVAPRSGLAVKNFIDVGAGVVDEDYRGNLGVVLFNHSDVDFEVKHGDRIAQFICERIFYP QLVMVDKLEDTERGEAGFGSTGVK

>DM\_train1910

APSYRVKRMDIAKNDEECVVNAANPRGLPGDGVCKAVYKKWPESFKNSATPVGTAKTVMCGTYPVI HAVGPNFSNYSESEGDRELAAAYREVAKEVTRLGVNSVAIPLLSTGVYSGGKDRLTQSLNHLFTAMDS TDADVVIYCRDKEWEKKISEAIQMRT

>DM\_train1911

MQLSHRPAETGDLETVAGFPQDRDELFYCYPKAIWPFSVAQLAAAIAERRGSTVAVHDGQVLGFAN FYQWQHGDFCALGNMMVAPAARGLGVARYLIGVMENLAREQYKARLMKISCFNANAAGLLLYTQL GYQPRAIAERHDPDGRRVALIQMDKPLEP

>DM\_train1912

GMASSFLEEVDRLITLSGITFHASGTGTPELIKIYQDALGNEFPETYKLFLEKYGTLTFNGVSFYGISKRGLS AASIPDVKFATEQARTFGDINKEMIMIKNSGYGSIFSIDTSIIGSEGEPVIVETNLSFKDNTEKKVVANSFG EFLLEEIELSLTDLG

>DM\_train1913

MSSNAQVRPPLPPFTRESAIEKIRLAEDGWNSRDPERVSLAYTLDTQWRNRAEFAHNREEAKAFLTRK WAKELDYRLIKELWAFTDNRIAVRYAYEWHDDSGNWFRSYGNENWEFDEQGLMARRFACINDMPI KAOERKFHWPLGRRPDDHPGLSELGLE

>DM\_train1914

LPGTRVTESIHKVAERVVTLVSMELPDNVRLIRDYDPSLPELAHDPDQIEQVLLNIVRNALQALGPEGG EIILRTRTAFQLTLHGERYRLAARIDVEDNGPGIPPHLQDTLFYPMVSGREGGTGLGLSIARNLIDQHSG KIEFTSWPGHTEFSVYLPIRK

>DM\_train1916

GMQGIAFQDAYPDDLSHCYGCGRNNEQGHQLKSYWRGEQTIAHFMPKPFHTAIPGFVYGGLIASLI DCHGTGSASAAAQRALEQAGEQLDEPPRFVTAALNIDYLAPTPMGVELELVGEIKEVKPRKVVVEIAL SADGKLCARGHMVAVKMPETMAATSA

>DM\_train1917

EPTMYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIELSENCAYDSVQIISGDTEEGRLCGQ RSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYYVATDINECTDFVDVPCSHFCNNFIGGY FCSCPPEYFLHDDMKNCGVN

>DM train1918

GDSAPLNEAMAVLOHHDAVSGTSROHVANDYAROLSEGWRPCEVLMSNALAHLSGLKEDFAFCR

KLNISICPLTQTAERFQVIVYNPLGRKVDWMVRLPVSKHVYLVKDPGGKIVPSDVVTIPSSDSQELLFSA LVPAVGFSIYSVSOMPNORPOKSWS

>DM train1919

MPPRKELVGNKWFIENYENETESLVIDANKDESIFIGKCSQVLVQIKGKVNAISLSETESCSVVLDSSISG MDVIKSNKFGIQVNHSLPQISIDKSDGGNIYLSKESLNTEIYTSCSTAINVNLPIGEDDDYVEFPISEQMK HSFADGKFKSAVFEHAG

>DM\_train1920

SVDNHGLRRCLISTDMHHIEESFQEIKRAIQAKDTFPNVTILSTLETLQIIKPLDVCCVTKNLLAFYVDRV FKDHQEPNPKILRKISSIANSFLYMQKTLRQCQEQRQCHCRQEATNATRVIHDNYDQLEVHAAAIKS LGELDVFLAWINKNHEVMSSA

>DM\_train1921

RLGEVFVLDEEEIRIIQTEAEGIGPENVLNASYSKLKKFIESADGFTNNSYGATFSFQPYTSIDEMTYRHIF TPVLTNKQISSITPDMEITTIPKGRYACIAYNFSPEHYFLNLQKLIKYIADRQLTVVSDVYELIIPIHYSPKK QEEYRVEMKIRILE

>DM train1923

MGRGKVKPNRKSTGDNSNVVTMIRAGSYPKVNPTPTWVRAIPFEVSVQSGIAFKVPVGSLFSANFRT DSFTSVTVMSVRAWTQLTPPVNEYSFVRLKPLFKTGDSTEEFEGRASNINTRASVGYRIPTNLRQNTV AADNVCEVRSNCROVALVISCCFN

>DM\_train1924

MMESVNTSFLSPSLVTIRDFDNGQFAVLRIGRTGFPADKGDIDLCLDKMKGVRDAQQSIGDDTEFGF KGPHIRIRCVDIDDKHTYNAMVYVDLIVGTGASEVERETAEELAKEKLRAALQVDIADEHSCVTQFEM KLREELLSSDSFHPDKDEYYKDFL

>DM\_train1925

QASGNTDQAALESAQARLAALSILVGAVGATGPGVMITIDDPGPGVAPEVMIDVINELRAAGAEAIQI NDAHRSVRVGVDTWVVGVPGSLTVDTKVLSPPYSILAIGDPPTLAAAMNIPGGAQDGVKRVGGRM VVQQADRVDVTALRQPKQHQYAQPVK

>DM\_train1926

GCGVEEKTEVQLLKEMPKPKAMTIDPSLSQKEATEMVHAAQRFYAFWDTGKEELIPQTVTENFFDHTL PKGRPQGTEGLKFAAQNFRKIVPNIHCEIEDLLVVGDKVTARLSFTGTHNDKKIDFFAIDILHVKDGKITE DWHLEDNLTLKQOLGLIAEE

>DM train1927

MDEIKIEKLKKLDKKALNELIDVYMSGYEGLEEYGGEGRDYARNYIKWCWKKASDGFFVAKVGDKIVG FIVCDKDWFSKYEGRIVGAIHEFVVDKKFQGKGIGRKLLITCLDFLGKYNDTIELWVGEKNYGAMNLYE KFGFKKVGKSGIWVRMIKRONL

>DM\_train1928

NAMQDIHFRRHYVRHLPKEVSQNDIIKALASPLINDGMVVSDFADHVITREQNFPTGLPVEPVGVAIP HTDHKYVRQNAISVGILAEPVNFEDMGGEPDPVPVRVVFMLALGESNKQLNVLGWIMDVIQDEDF MQQLLVMNDDEIYQSIYTRISERGEV

>DM\_train1929

SSDVNELEIGDPIPDLSLLNEDNDSISLKKITENNRVVVFFVYPRASTPGSTRQASGFRDNYQELKEYAA VFGLSADSVTSQKKFQSKQNLPYHLLSDPKREFIGLLGAKKTPLSGSIRSHFIFVDGKLKFKRVKISPEVSV NDAKKEVLEVAEKFKEE

>DM train1930

MGSDKIHHHHHHMRTLNKDEHNYIKQIANIHETLLSQVESNYKCTKLSIALRYEMICSRLEHTNDKIYI YENEGQLIAFIWGHFSNEKSMVNIELLYVEPQFRKLGIATQLKIALEKWAKTMNAKRISNTIHKNNLPM ISLNKDLGYQVSHVKMYKDID

>DM\_train1931

MTFQASGTTGITTLTVTEECRVQVGNVTATLARSKLKDDTAIGVIGVTALGCNGLQAALQADPDNYD ATNLYMTSRNHDKLNVKLKATDGSSWTYGNGVFYKTEGGNWGGHVGISVDGNQTDKPTGEYTLNL TGGYWTNDNKQTFQASGTTGITTLTLE

>DM train1932

GSAMASNAVLYKSNHNVVYSCKYHIVWCPKYRRKVLVGAVEMRLKEIIQEVAKELRVEIIEMQTDKDH IHILADIDPSFGVMKFIKTAKGRSSRILRQEFNHLKTKLPTLWTNSCFISTVGGAPLNVVKQYIENQQNS NRPKOKEKWKSYVDNLOTKAL

>DM train1933

MFDQLAVFTPQGQVLYQYNCLGKKFSEIQINSFISQLITSPVTRKESVANANTDGFDFNLLTINSEHKN SPSFNALFYLNKQPELYFVVTFAEQTLELNQETQQTLALVLKLWNSLHLSESILKNRQGQNEKNKHNY VDILQGIEDDLKKFEQYFRIK

>DM train1934

TDENLKIAIASSPAPRYITDMSIEEISREWYMLMPRQKITGGLMVKMDQAIMDKRITLKANFSVLFDQL ETLVSLRAFTDDGAIVAEISPIPSMPGHSTEDVKNAIGILIGGLEWNDNSIRASENIQRFAWGIRDENGG PPLPPKQKRYMARRVESEV

>DM train1935

PPTIQEIKQKIDSYNSREKHCLGMKLSEDGTYTGFIKVHLKLRRPVTVPAGIRPQSIYDAIKEVNPAATTD KRTSFYLPLDAIKQMHISSTTTVSEVIQGLLDKFMVVDNPQKFALFKRIHKDGQVLFQKLSIADYPLYLR LLAGPDTDVLSFVLKEN

>DM train1936

ERLRVAAYCRVSTDSEDQLNSYKSQVQYYTDMIKKNKEWVLADIYADEAITGTQVTKREDFQRMIND CMNGEIDMVFTKSISRFARNTLDTLKYVRMLKERNIAVYFEDEKINTLTMDGELLLVVLSSVAQQEVEN ISANVKKGLKMKMKRGELVGFQ

>DM train1938

GSHMNTAEEDMEDDTSWRSEATFQFTVERFSRLSESVLSPPCFVRNLPWKIMVMPRFYPDRPHQKS VGFFLQCNAESDSTSWSCHAQAVLKIINYRDDEKSFSRRISHLFFHKENDWGFSNFMAWSEVTDPEK GFIDDDKVTFEVFVQADAPHGVAWD

>DM train1940

GMSDDLTDAQTAAIPEGFSQLNWSRGFGRQIGPLFEHREGPGQARLAFRVEEHHTNGLGNCHGGM LMSFADMAWGRIISLQKSYSWVTVRLMCDFLSGAKLGDWVEGEGELISEEDMLFTVRGRIWAGERTLI TGTGVFKALSARKPRPGELAYKEEA

>DM train1941

SGAISGDSLISLASTGKRVSIKDLLDEKDFEIWAINEQTMKLESAKVSRVFMTGKKLVYILKTRLGRTIKAT ANHRFLTIDGWKRLDELSLKEHIALPRKLESSSLQLSPEIEKLSQSDISWDSIVSITETGVEEVFDLTVPGP HNFVANDIIVHASI

>DM train1942

MGVFTFQDEYTSTIAPAKLYKALVTDADIIIPKAVETIQSVEIVEGNGGPGTIKKLTFIEGGESKYVLHKIEA IDEANLGYNYSIVGGVGLPDTIEKISFETKLVEGANGGSIGKVTIKIETKGDAQPNEEEGKAAKARGDAF FKAIESYLSAHPDYN

>DM train1943

VDLGSKSSNSTCRLNVTELASIHPGETWTLHGMCISICYYENVTEDEIIGVAFTWQHNESVVDLWLYQ NDTVIRNFSDITTNILQDGLKMRTVPVTKLYTSRMVTNLTVGRYDCLRCENGTTKIIERLYVRLGSLYPR PPGSGLAKHPSVSADEELSA

>DM train1944

MAPKRSRRSNRRAGSRAAATSLVYDTCYVTLTERATTSFQRQSFPTLKGMGDRAFQVVAFTIQGVSA APLMYNARLYNPGDTDSVHATGVQLMGTVPRTVRLTPRVGQNNWFFGNTEEAETILAIDGLVSTKG ANAPSNTVIVTGCFRLAPSELQSS

>DM\_train1945

VMKLESDKTFPIMLEGKINGYACVVGGKLFRPMHVEGKIDNDVLAALKTKKASKYDLEYADVPQNMR ADTFKYTHEKPQGYYSWHHGAVQYENGRFTVPKGVGAKGDSGRPILDNQGRVVAIVLGGVNEGSR TALSVVMWNEKGVTVKYTPENCEQW

>DM\_train1946

MSHPDLNKLLELWPHIQEYQDLALKHGINDIFQDNGGKLLQVLLITGLTVLPGREGNDAVDNAGQEY ELKSINIDLTKGFSTHHHMNPVIIAKYRQVPWIFAIYRGIAIEAIYRLEPKDLEFYYDKWERKWYSDGHKD

## **INNPKIPVKYVMEHGTKIY**

>DM\_train1948

SDVAFRGNLLDRPCHVSGDSLNKHVVFKTRASRDFWYPPGRSPTESFVIRLENCHATAVGKIVTLTFK GTEEAALPGHLKVTGVNAGRLGIALLDTDGSSLLKPGTSHNKGQGEKVTGNSLELPFGAYVVATPEAL RTKSVVPGDYEATATFELTYR

>DM train1949

MGAMHVLTLDLAPVTPKDAPLLHRVFHLSPSYFALIGMELPTLEDVVRDLQTLEVDPRRRAFLLFLGQ EPVGYLDAKLGYPEAEDATLSLLLIREDHQGRGLGRQALERFAAGLDGVRRLYAVVYGHNPKAKAFF QAQGFRYVKDGGPTLTWYVRPL

>DM\_train1950

SSPNILLTRIDNRLVHGQVGVTWTSTIGANLLVVVDDVVANDDIQQKLMGITAETYGFGIRFFTIEKTIN VIGKAAPHQKIFLICRTPQTVRKLVEGGIDLKDVNVGNMHFSEGKKQISSKVYVDDQDLTDLRFIKQR GVNVFIQDVPGDQKEQIPD

>DM train1951

YFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTDSDSRDNAPRTIFIISMYKDSQPRGMAVTISVKSE KISTLSSENKIISFKEMNPPDNIKDTKSDIIFFQRSVPGHDNKMQFESSSYEGYFLASEKERDLFKLILKKE DELGDRSIMFTVQNED

>DM train1952

GNIESIENLQGIRALQQQAPQLLSSGLPNEQQFSLLKQAGVDVVINLMPDSSKDAHPDEGKLVTQAG MDYVYIPVDWQNPKVEDVEAFFAAMDQHKGKDVLVHCLANYRASAFAYLYQLKQGQNPNMAQT MTPWNDELAIYPKWOALLTEVSAKYGH

>DM train1953

MYSIEVRTHSALHVVKGAVVKVLGSEAKWTYSTYVKGNKGVLIVKFDRKPSDEEIREIERLANEKVKEN APIKIYELPREEAEKMFGEDMYDLFPVPEDVRILKVVVIEDWNVNACNKEHTKTTGEIGPIKIRKVRFRKS KGLLEIHFELLELENPS

>DM\_train1954

MALFSAQSPYINPIIPFTGPIQGGLQEGLQVTLQGTTKSFAQRFVVNFQNSFNGNDIAFHFNPRFEEG GYVVCNTKQNGQWGPEERKMQMPFQKGMPFELCFLVQRSEFKVMVNKKFFVQYQHRVPYHLVDT IAVSGCLKLSFITFQTQNFRPAHQA

>DM\_train1955

GMPALITYRTTVQEDWVDYNGHLRDAFYLLIFSYATDALMDRIGLDADSRGQSGNSLFTLEAHINYLH EVKLGTEVWVQTQILGFDRKRLHVYHSLHRAGFDEVLAASEQMLLHVDLAGPQSAPFGHTTVCRLN HLVEQQEGAQAPQYMGRTIKLPA

>DM train1956

MSSSIREEVHRHLGTVALMQPALHQQTHAPAPTEITHTLFRAYTRVPHDVGGEADVPIEYHEKEEEIW ELNTFATCECLAWRGVWTAEERRRKQNCDVGQTVYLGMPYYGRWLLTAARILVDKQFVTLTELHNK IVEMRERVASGQGLGEYLPPKAK

>DM\_train1957

MKLHDLKPTPGSRKDRKRVGRGPGGTDKTAGRGHKGQKSRSGAGKGAFFEGGRSRLIARLPKRGFN NVGTTYEVVKLSQLQDLEDTTFDRDTLEAYRLVRRKNRPVKLLASGEISRAVTVHVDAASAAAIKAVEA AGGRVVLPEVOTOODDAOKAE

>DM\_train1958

MSDRKPVRGRHQARKRAVALLFEAEVRGISAAEVVDTRAALAEAKPDIARLHPYTAAVARGVSEHAA HIDDLITAHLRGWTLDRLPAVDRAILRVSVWELLHAADVPEPVVVDEAVQLAKELSTDDSPGFVNGVL GQVMLVTPQLRAAAQAVRGGA

>DM\_train1959

MLKQVEIFTDGSALGNPGPGGYGAILRYRGREKTFSAGYTRTTNNRMELKAAIEGLKALKEPAEVDLYT DSHYLKKAFTEGWLEGWRKRGWRTAEGKPVKNRDLWEALLLAMAPHRVRFHFVKGHAGHPENERA DELARAAAMNPTLEDTGYOVEV

>DM\_train1960

MIVTSGVLVENGKVLLVKHKRLGVYIYPGGHVEHNETPIEAVKREFEEETGIVVEPIGFTYGIIDENAVER PMPLVILEEVVKYPEETHIHFDLIYLVKRVGGDLKNGEWIDVREIDRIETFPNVRKVVSLALSTLYRLGKIS KI AAAI FHHHHHH

>DM\_train1961

MSSRSELLLEKFAEKIGIGSISFNENRLCSFAIDEIYYISLSDANDEYMMIYGVCGKFPTDNSNFALEILNA NLWFAENGGPYLCYEAGAQSLLLALRFPLDDATPEKLENEIEVVVKSMENLYLVLHNQGITLENEHMK IEEISSSDNKHYYAGR

>DM\_train1962

MWGKKDAGTELTNYQTLATNTIGMMKGVDGYAFTSGAKMTDTLIQAGAAKGMTVSGDPASGSAT LWNSWGGQIVVAPDTAGGTGFNNGFTITTNKVPQSACVSISTGMSRSGGTSGIKINGNNHTDAKVT AEIASSECTADNGRTGTNTLVFNYNG

>DM train1963

GMPENTAMAALLPEESLFFRELVKQWRAQDSYGTWEKKSDMELLAPYVLDKEQRRAIPIIGDPDPEIL WRVELFYNAVGLATERASGVMVSPMMKMSHEGFGRMVLIAGRLIVVNKQLRDVHRFGFPSMEKLA EEGDKLVAGALEMIEKFPEVARF

>DM\_train1964

GGGVMHYTDKAALPADGEAREVAALFDTWNAALATGNPHKVADLYAPDGVLLPTVSNEVRASREQ IENYFEMFLTKKPKGVINYRTVRLLDDDSAVDAGVYTFTLTDKNGKKSDVQARYTFVYEKRDGKWLIIN HHSSAMPEVDTATATAAVTKAK

>DM\_train1965

HMLLTTSRKPSQRTRSFSQRLSRIMGWRYINRGKMSLRDVLIEARGPVAVVSERHGNPARITFLDERG GERGYILFNPSFEMKKPELADKAVRVSSCPPGSEGLCNLMGLEVDESSSRDAWSIRTDEEYAWVMEL MDARGTPAGFKLLIRDFRVGE

>DM train1966

VTDVLLCVGNSMMGDDGAGPLLAEKCAAAPKGNWVVIDGGSAPENDIVAIRELRPTRLLIVDATDM

GLNPGEIRIIDPDDIAEMFMMTTHNMPLNYLIDQLKEDIGEVIFLGIQPDIVGFYYPMTQPIKDAVETVY ORLEGWEGNGGFAQLAVEEE

>DM train1968

SITKPQNKSAKLVDGELLVKASVESFGLEDEKYWFLVCCELSNGKTRQLKRYYQDFYDLQVQLLDAFP AEAGKLRDAGGQWSKRIMPYIPGPVPYVTNSITKKRKEDLNIYVADLVNLPDYISRSEMVHSLFVVLN NGFDREFERDENGSHHHHHH

>DM\_train1969

MPLLSASIVSAPVVTSETYVDIPGLYLDVAKAGIRDGKLQVILNVPTPYATGNNFPGIYFAIATNQGVV ADGCFTYSSKVPESTGRMPFTLVATIDVGSGVTFVKGQWKSVRGSAMHIDSYASLSAIWGTAAPSSQ GSGNQGAETGGTGAGNIGGG

>DM\_train1970

MLEDLIGKAYLESAEDRRRGDRSEEVEAIRKYIRSARRTVVPNWNAEKVDAINDVLRSFNLREAEHLQF NTNWADLTRMPAVTKALMALDISGADLVIARGRLGVPGSGSLLVIMDSRGRLLSAAMSPPHVIHSME VREAVRSEMTHALERIGFKR

>DM train1971

ALSPPRRKSFKKWTPPRSPFNLVQEILFHDPWKLLIATIFLNRTSGKMAIPVLWEFLEKYPSAEVARAAD WRDVSELLKPLGLYDLRAKTIIKFSDEYLTKQWRYPIELHGIGKYGNDSYRIFCVNEWKQVHPEDHKLN KYHDWLWENHEKLSLS

>DM\_train1972

GTGQAADLKSTQAAIDQINGKLNRVIEKTNEKFHQIEKEFSEVEGRIQDLEKYVEDTKIDLWSYNAELL VALENQHTIDLTDSEMNKLFEKTRRQLRENAEEMGNGSFKIYHKCDNACIESIRNGTYDHDVYRDEAL NNRFOIKGVELKSGYKDW

>DM\_train1974

GTLDSTWKEATLPQVKAMLEKDDGKVSGDTVTYSGKTVHVVAAAVLPGFPFPSFEVHDKKNPTLEIP AGATVDVTFINTNKGFGHSFDITKKGPPYAVMPVIDPIVAGTGFSPVPKDGKFGYTDFTWHPTAGTYY YVCQIPGHAATGMFGKIVVK

>DM\_train1975

MIISSLTNPNFKVGLPKVIAEVCDYLNTLDLNALENGRHDINDQIYMNVMEPETAEPSSKKAELHHEYL DVQVLIRGTENIEVGATYPNLSKYEDYNEADDYQLCADIDDKFTVTMKPKMFAVFYPYEPHKPCCVV NGKTEKIKKLVVKVPVKLI

>DM\_train1976

MKAPELQIQQWFNSATDLTLADLRGKVIVIEAFQMLCPGCVMHGIPLAQKVRAAFPEDKVAVLGLHT VFEHHEAMTPISLKAFLHEYRIKFPVGVDQPGDGAMPRTMAAYQMRGTPSLLLIDKAGDLRAHHFG DVSELLLGAEIATLLGEAAPSV

>DM\_train1977

MAMRKIYIAGPAVFNPDMGASYYNKVRELLKKENVMPLIPTDNEATEALDIRQKNIQMIKDCDAVIA DLSPFRGHEPDCGTAFEVGCAAALNKMVLTFTSDRRNMREKYGSGVDKDNLRVEGFGLPFNLMLYD GVEVFDSFESAFKYFLANFPSK

>DM\_train1978

MGSDKIHHHHHHMSKKQKSKYIVIFGCGRLGSLIANLASSSGHSVVVVDKNEYAFHRLNSEFSGFTVV GDAAEFETLKECGMEKADMVFAFTNDDSTNFFISMNARYMFNVENVIARVYDPEKIKIFEENGIKTICP AVLMIEKVKEFIIGSEED

>DM\_train1979

MDIREIEQERASFAFKVVSDIKDKYSQNKKVQGKYSSYAEKAPTIILNNGLGATLAFFLSKLEKPIDDVDY KSINPESFGNAENIAYAFLYKHLSTWLAEGNGKDSAFSGLTNGEDPLKYIMEKTAIDVAISTEEALSILN WIKKFAKAMLEEEL

>DM\_train1981

GSRATVFKLGLFKSLFLCSFHDITRLFKNDKTTNQQWVLAVFGLAEVFFEASFELLKKQCSFLQMQKRS HEGGTCAVYLICFNTAKSRETVRNLMANMLNVREECLMLQPPKIRGLSAALFWFKSSLSPATLKHGAL PEWIRAQTTLNESLQTE

>DM train1982

PVVIKTEGPAWTPLEPKLITRLADTVRTKGLRSPITMAEVEALMSSPLLPHDVTNLMRVILGPAPYALW MDAWGVQLQTVIAAATRDPRHPANGQGRGERTNLNRLKGLADGMVGNPQGQAALLRPGELVAIT ASALQAFREVARLAEPAGPWA

>DM train1983

EELIEIREARMDDLDTIAKFNYNLAKETEGKELDMDVLTKGVKALLLDERKGKYHVYTVFDKVVAQIMY TYEWSDWRNGNFLWIQSVYVDKEYRRKGIFNYLFNYIKNICDKDENIVGMRLYVEKENINAKATYESL NMYECDYNMYEYEVIHS

>DM train1984

GMFASLVIPVSAQANSGEMPQEQQLAVKYMDALTEHDYKTLITFYNRDSIFFDKTANRKYTGGRFIID FLERAHQGVLEYDFNIEHMYNAGSLVVMIGNYHFKGPGEQFGKPGKIIDVAIPAVTSLKLDMLNRRVT EHVDLIDYQTMSDQLAMQ

>DM\_train1985

MKKILLNGPNLNMLGKREPHIYGSQTLSDIEQHLQQSAQAQGYELDYFQANGEESLINRIHQAFQN TDFIIINPGAFTHTSVAIRDALLAVSIPFIEVHLSNVHAREPFRHHSYLSDVAKGVICGLGAKGYDYALDF AISELQKIQLGEMMNG

>DM train1986

MGSDKIHHHHHHMSDSLVVCEVDPELKETLRKFRFRKETNNAAIIMKVDKDRQMVVLEDELQNISPE ELKLELPERQPRFVVYSYKYVHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNRLVQTAELTKVFEIR TTDDLTETWLKEKLAFFR

>DM train1987

MGSSSSGLVPRGSSFMLQHLNSGWAVDQAIVNEDERLVCIRFGHDYDPDCMKMDELLYKVADDIK NFCVIYLVDITEVPDFNTMYELYDPVSVMFFYRNKHMMIDLGTGNNNKINWPMNNKQEFIDIVETIF RGARKGRGLVISPKDYSTKYKY

>DM train1988

MAGDPNSMTVSHHNASTARFYALRLLPGQEVFSQLHAFVQQNQLRAAWIAGCTGSLTDVALRYAG QEATTSLTGTFEVISLNGTLELTGEHLHLAVSDPYGVMLGGHMMPGCTVRTTLELVIGELPALTFSRQP CAISGYDELHISSRLEHHHH

>DM train1989

GMTRTMSFHKNCELCTTAGGEILWQDALCRVVHVENQDYPGFCRVILNRHVKEMSDLRPAERDHL MLVVFAVEEAVREVMRPDKINLASLGNMTPHVHWHVIPRFKRDRHFPNSVWGETKRESLPQALDQ GSTTALKKAISVRLDQGEPVFMGM

>DM\_train1990

SNAMTQQDFRTKVDNTVFGVRATALIVQNHKLLVTKDKGKYYTIGGAIQVNESTEDAVVREVKEELG VKAQAGQLAFVVENRFEVDGVSYHNIEFHYLVDLLEDAPLTMQEDEKRQPCEWIDLDKLQNIQLVPV FLKTALPDWEGQLRHIHLEE

>DM train1991

GHMPLPTELARHLTEEKIAFVQRSGLRAEVLEPGYVRLRMPGAGNENHIGSMYAGALFTLAELPGGAL FLTSFDSARFYPIVKEMTLRFRRPAKGDIRVEARLDAERIRQLETEAGERGKAEYSLELQLTDEQGEVVA ESAALYQLRSHARPGS

>DM train1992

MGKSASKQFHNEVLKAHNEYRQKHGVPPLKLCKNLNREAQQYSEALASTRILKHSPESSRGQCGENL AWASYDQTGKEVADRWYSEIKNYNFQQPGFTSGTGHFTAMVWKNTKKMGVGKASASDGSSFVVA RYFPAGNVVNEGFFEENVLPPKK

>DM\_train1993

APVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVWSMSFVQGEESNDKIPVALGLKEK NLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINNKLEFESAQFPNFYISTSQAENMPVFL GGTKGGQDITDFTMQFVSS

>DM\_train1994

MNVRATYTVIFKNASGLPNGYDNWGWGCTLSYYGGAMIINPQEGKYGAVSLKRNSGSFRGGSLRFD MKNEGKVKILVENSEADEKFEVETISPSDEYVTYILDVDFDLPFDRIDFQDAPGNGDRIWIKNLVHSTGS

## **ADDFVDPINLEHHHHHH**

>DM train1995

SNAMAKNKLLRMDNVSIVVESLDNAISFFEEIGLNLEGRANVEGEWAGRVTGLGSQCVEIAMMVTP DGHSRIELSRFLTPPTIADHRTAPVNALGYLRVMFTVEDIDEMVSRLTKHGAELVGEVVQYENSYRLCY IRGVEGILIGLAEELGNK

>DM train1996

MTDDSAVESKQKKSKIRKGHWIPVVAGFLRKDGKILVGQRPENNSLAGQWEFPGGKIENGETPEEAL ARELNEELGIEAEVGELKLACTHSYGDVGILILFYEILYWKGEPRAKHHMMLEWIHPEELKHRNIPEANR KILHKIYKALGLEWRK

>DM\_train1997

LEDRKNERLPSDLARRATAIIEMPDGVLVTASRGGRYNLPGGKANRGELRSQALIREIREETGLRINSML YLFDHITPFNAHKVYLCIAQGQPKPQNEIERIALVSSPDTDMDLFVEGRAILRRYARLRNEETAKGEALR ALLGLARYIAKVD

>DM train1998

MENQKMQEPLVYRRILLTVDEDDNTSSERAFRYATTLAHDYDVPLGICSVLESEDINIFDSLTPSKIQAK RKHVEDVVAEYVQLAEQRGVNQVEPLVYEGGDVDDVILEQVIPEFKPDLLVTGADTEFPHSKIAGAIG PRLARKAPISVIVVR

>DM train1999

LSSTQSVNSVLAPGNLRKVHHIALNVQDMQASRYFYGTILGLHELTDDEVPATLTELVASGKVANFIT PDGTILDLFGEPELSPPDPNPEKTFTRAYHLAFDIDPQLFDRAVTVIGENKIAIAHGPVTRPTGRGVYFY DPDGFMIEIRCDPEA

>DM train2000

GHMTEIERKFLVATFPDGELHAVPLRQGYLTTPTDSIELRLRQQGTEYFMTLKSEGGLSRQEYEIQIDVT QFEMLWPATEGRRVEKTRYSGKLPDGQLFELDVFAGHLSPLMLVEVEFLSEDAAQAFIPPPWFGEEVT EDKRYKNKALALSIP

>DM\_train2001

AGHMSLYRLIYSSQGIPNLQPQDLKDILESSQRNNPANGITGLLCYSKPAFLQVLEGECEQVNETYHRI VQDERHHSPQIIECMPIRRRNFEVWSMQAITVNDLSTEQVKTLVLKYSGFTTLRPSAMDPEQCLNFLL DIAKIYELSDNFFLDL

>DM\_train2002

GMIYSKVENFINENKQNAIFTEGASHENIGRIEENLQCDLPNSYKWFLEKYGAGGLFGVLVLGYNFDH ASVVNRTNEYKEHYGLTDGLVVIEDVDYFAYCLDTNKMKDGECPVVEWDRVIGYQDTVADSFIEFFY NKIQEAKDDWDEDEDWDD

>DM train2003

MEKLKEFRGIKEHLGVFREAVKDAERIGFAGVPGVCTPFAQLFAYAVRDKDNIFIPNTDFSKARKLEVTE YGVELGEISPGNVDVLVLLGGLSMPGIGSDIEDVKKLVEDALEEGGELMGLCYMDMFARAGWYELLD FDCVINADIDGYVLRG

>DM\_train2004

GMQQPTASVVSYVAEYHKATETTMGRYKKVIEITGHDEVAAKLLEGLIDAGTRYFSKVVEMEHRMAS ARFRLDGEELRELTETLDRSRRLAHESLISSLHVFNRYIVKEYGEELKEAGIEGGIFPKPEANRDRIAIADW AGELLTGIYENRHR

>DM\_train2005

GAMDPDLEATLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIE DPKPLRLDDVSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALA AAAGIAVANARLYQQAK

>DM\_train2006

SEDNITVRFVTENDKEGWQRLWKSYQDFYEVSFPDDLDDFNFGRFLDPNIKMWAAVAVESSSEKIIG MINFFNHMTTWDFKDKIYINDLYVDENSRVKGAGGKLIQFVYDEADKLGTPSVYWCTDESNHRAQL LYVKVGYKAPKILYKRKGY

>DM\_train2007

EKTCDLVGEKGKESEKELALLKRLTPLFQKSFESTVGQSPDMYSYVFRVCREAGQHSSGAGLVQIQKS NGKETVVGRFNETQIFQGSNWIMLIYKGGDEYDNHCGREQRRAVVMISCNRHTLADNFNPVSEERG KVQDCFYLFEMDSSLACS

>DM\_train2008

GSMSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVSRELNFS STEQMEKFRLEQKVYFKGQCLEEWFFEFGFVIPNSTNTWQSLIEAAPESQMMPASVLTGNVIIETKFFD DDLLVSTSRVRLFYV

>DM\_train2009

MELTTRTLPARKHIALVAHDHCKQMLMSWVERHQPLLEQHVLYATGTTGNLISRATGMNVNAMLS GPMGGDQQVGALISEGKIDVLIFFWDPLNAVPHDPDVKALLRLATVWNIPVATNVATADFIIQSPHF NDAVDILIPDYORYLADRLK

>DM train2010

MLEKVEEWIKARGLTWRLLIMQKPTRTVAEAAALLGVSESEIVKTLIVLDNAGGVYAVVIPGDKRLNIN SMKELAGKPVRLARANEVVELTGYPVGGVPPVALPPNIVLVVDRILLSRKKVYGGGGRENALLEFSPRE LVEATGAVVADVSE

>DM\_train2011

MKPKSGAVRRLEKNTMNFVLSDVADAEAEKAIRDPLVAYNLARFGESDKRDLNITIRNDDNSVTGGL VGHTARGWLYVQLLFVPEAMRGQGIAPKLLAMAEEEARKRGCMGAYIDTMNPDALRTYERYGFTKI GSLGPLSSGQSITWLEKRF

>DM\_train2013

GMNPENWLLLRRVVRFGDTDAAGVMHFHQLFRWCHESWEESLESYGLNPADIFPGSRKSEVTPEVA LPIIHCQADFRRPIHTGDALAMELRPERLNPNSFQVHFEFRCEEQIAAHALIRHLAINAQTRHRCALPE GIDRWLEASGVGKIGSI

>DM train2014

MNPAHLLVLSAVCVSLLGASSIPPQPLHLIQFGNMIQCTVPGFLSWIKYADYGCYCGAGGSGTPVDK

LDRCCQVHDNCYTQAQKLPACSSIMDSPYVKIYSYDCSERTVTCKADNDECAAFICNCDRVAAHCF AASPYNNNNYNIDTTTRC

>DM train2015

MRGSHHHHHHGSENLYFQSGLFDAPGRSQFVPADQAFAFDFQQNQHDLNLTWQIKDGYYLYRKQ IRITPEHAKIADVQLPQGVWHEDEFYGKSEIYRDRLTLPVTINQASAGATLTVTYQGCADAGFCYPPET KTVPLSEVVANNAAPOPV

>DM\_train2016

MSKNTVSSARFRKVDVDEYDENKFVDEDDGGDGQAGPDEGEVDSCLRQGNMTAALQAALKNPPI NTKSQAVKDRAGSIVLKVLISFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDNSSAVLLQWHEKA LAAGGVGSIVRVLTARKTV

>DM\_train2018

QGGAAAPISSHARLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLIGEKLFHGVSMSERCYLMKQV LNFTLEEVLFPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKDTVKKLGESGEIKAI GELDLLFMSLRNACI

>DM train2019

GMAKKTLILYYSWSGETKKMAEKINSEIKDSELKEVKVSEGTFDADMYKTSDIALDQIQGNKDFPEIQL DNIDYNNYDLILIGSPVWSGYPATPIKTLLDQMKNYRGEVASFFTSAGTNHKAYVSHFNEWADGLNV IGVARDDSEVDKWSK

>DM\_train2020

MRTFESVADLAAAAGEKVGQSDWVTITQEEVNLFADATGDHQWIHVDPERAAAGPFGTTIAHGFM TLALLPRLQHQMYTVKGVKLAINYGLNKVRFPAPVPVGSRVRATSSLVGVEDLGNGTVQATVSTTVE VEGSAKPACVAESIVRYVA

>DM\_train2021

MDCMRKLDRVDMQLVKILSENSRLTYRELADILNTTRQRIARRIDKLKKLGIIRKFTIIPDIDKLGYMYAIV LIKSKVPSDADKVISEISDIEYVKSVEKGVGRYNIIVRLLLPKDIKDAENLISEFLQRIKNAENVEVILISEVRK FEII

>DM\_train2022

MGSSSSGLVPRGSMSSGTMKFNGYLRVRIGEAVGLQPTRWSLRHSLFKKGHQLLDPYLTVSVDQVR VGQTSTKQKTNKPTYNEEFCANVTDGGHLELAVFHETPLGYDHFVANCTLQFQELLRTTGASDTFEG WVDLEPEGKVFVVITLTG

>DM train2023

MHRTSNGSHATGGNLPDVASHYPVAYEQTLDGTVGFVIDEMTPERATASVEVTDTLRQRWGLVHG GAYCALAEMLATEATVAVVHEKGMMAVGQSNHTSFFRPVKEGHVRAEAVRIHAGSTTWFWDVSLR DDAGRLCAVSSMSIAVRPRRD

>DM\_train2024

MAITVKGLTNKLTRTQRRIAVVEFIFSLLFFLPKEAEVIQADFLEYDTKERQLNEWQKLIVKAFSENIFSFQ KKIEEQQLKNQLEIQTKYNKISGKKIDLLTTAVVLCALSEQKAHNTDKPLLISEALLIMDHYSQGAEKKQ THALLDKLL

>DM\_train2025

SNAMVHDSALPFDALPMPPQGREGFEECPYLDSQWVADTNGQRMTGQGVDTRFDTPACVFWSY PEAPQATVMVRHMPSEEEAIRVVDWAAPIDTTEPAEEPDGWSGGRAGHEEGAVYAVQKGPVAVVV WSNQQOSLKAELMAKEAIARLGL

>DM\_train2026

GMQGAGRLMQPRPDSAFVHDVRVTWGDCDPAKIAYTGHLPRFALEAIDAWWSEYHGPGGWYHL ELDTNVGTPFVRLEMDFKSPVTPRHILKCHTWPTRLGTKSITFRVDGVQDGVTCFVGAFTCVFTIADQ FKSQPAPDHLRALIEPHIPA

>DM\_train2027

MSLDRTTQQPFGNGYLSVEQANLILNHLPLEITFVNKDDIFQYYNDSVPAAEMVFKRTPSQVGRNVE LCHPPKVLDKVKKVFELLRNGQRDKVNMWFQSERLGKFVYVTYAAVRDQAGDFQGVLEYVQDIKPF FELDSEFNRDEGHHHHHH

>DM train2029

MRNEMHLQFSARSENESFARVTVAAFVAQLDPTMDELTEIKTVVSEAVTNAIIHGYNNDPNGIVSISV IIEDGVVHLTVRDEGVGIPDIEEARQPLFTTKPELERSGMGFTIMENFMDEVIVESEVNKGTTVYLKKHIV KSKRYLEGSSF

GMTAVFRNTVLVRFKHCDAAGIVFYPRYFEMLNDFIEDWFAQALDWPFDAMHGAGQAGVPTADL HCRFVAPSRLGETLTRELRVVKLGQSSFTVQVRFMGPDSGLRLEVTQRLVCVDTDKIAPRPLPDPVRQ AMATYVDETLAATGSPGL

MPMTLDLQPGQRLARGVARHLRAHGFVSVEEFVPARGLRVDVMGLGPKGEIWVIECKSSRADFQAD AKWQGYLEWCDRYFWAVDMEFPAELLPAESGLLIADAYDAEIVRMAPEQKLAPARRKVLIQKFATHA ARRLQALRDPEGHGIFE

EADSGDGDSSEYQDGKEFGIGDLVWGKIKGFSWWPAMVVSWKATSKRQAMSGMRWVQWFGDG KFSEVSADKLVALGLFSQHFNLATFNKLVSYRKAMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLE WAHGGFKPTGIEGLKPNNTOP

TGKTGTQLLADKLKKLQVKDFQSIPVVIHENVSVYDAICTMFLEDVGTLFVVDRDAVLVGVLSRKDLLR ASIGQQELTSVPVHIIMTRMPNITVCRREDYVMDIAKHLIEKQIDALPVIKDTDKGFEVIGRVTKTNMTK ILVSLSENEIL

GMDVTIERVNDFDGYNWLPLLAKSSQEGFQLVERMLRNRREESFQEDGEAMFVALSTTNQVLACG GYMKQSGQARTGRIRHVYVLPEARSHGIGTALLEKIMSEAFLTYDRLVLYSEQADPFYQGLGFQLVSG EKITHTLDKTAFADSNR

MGSDKIHHHHHHMQARWIGNMMFHVRTDSNHDVLMDTKEEVGGKDAAPRPLELVLTGLMGCTG MDVVSILRKMKVIDQMKDFRIEIEYERTEEHPRIFTKVHLKYIFKFDGEPPKDKVEKAVQLSQEKYCSVS AILKCSSKVTYEIVYEN

MSSTKRQKNRVLVKLKKRKVRKDKIEKWAELALSALGLNNVELSVYITDDQEIRELNKTYRKKDKPTDV LSFPMGEEFGGYKILGDVVISQDTAERQARELGHSLEEEVKRLIVHGIVHLLGYDHEKGGEEEKKFRELE NYVLSKLSKAL

ADVSAAVGATGQSGMTYRLGLSWDWDKSWWQTSTGRLTGYWDAGYTYWEGGDEGAGKHSLSF APVFVYEFAGDSIKPFIEAGIGVAAFSGTRVGDQNLGSSLNFEDRIGAGLKFANGQSVGVRAIHYSNA GLKOPNDGIESYSLFYKIPI

MTNRLSWQDYFMANAELISKRSTCNRAYVGAVLVKNNRIIATGYNGGVADTDNCDDVGHEMEDG HCIRTVHAEMNALIQCAKEGISANNTEIYVTHFPCINCTKALLQAGVKKITYNTAYRIHPFAIELMTQKE VEYVQHDVPRVKLGEK

MKDKVYKRPVSILVVIYAQDTKRVLMLQRRDDPDFWQSVTGSVEEGETAPQAAMREVKEEVTIDVV AEQLTLIDCQRTVEFEIFSHLRHRYAPGVTRNTESWFCLALPHERQIVFTEHLAYKWLDAPAAAALTKS WSNRQAIEQFVINAA

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEHCSPHHTALRQAILCWGELMTLAT WVGNNLEDPASRDLVVNYVNTNMGLKIRQLLWFHISCLTFGRETVLEYLVSFGVWIRTPPAYRPPNA PILSTLPETTVV

MTSKIEQPRWASKDSAAGAASTPDEKIVLEFMDALTSNDAAKLIEYFAEDTMYQNMPLPPAYGRDAV EQTLAGLFTVMSIDAVETFHIGSSNGLVYTERVDVLRALPTGKSYNLSILGVFQLTEGKITGWRDYFDLR EFEEAVDLPLRG

ATSTKKLHKEPATLIKAIDGDTVKLMYKGQPMTFRLLLVDTPETKHPKKGVEKYGPEASAFTKKMVENA KKIEVEFDKGQRTDKYGRGLAYIYADGKMVNEALVRQGLAKVAYVYKGNNTHEQLLRKSEAQAKKEK LNIWSEDNADSGQ

MKLERVTVKNFRSHSDTVVEFKEGINLIIGQNGSGKSSLLDAILVGLYWPLRIKDIKKDEFTKVGARDTYI DLIFEKDGTKYRITRRFLKGYSSGEIHAMKRLVGNEWKHVTEPSSKAISAFMEKLIPYNIFLNAIYIRQGQI

## **DAILES**

QFLFSMSTGPFICTVKDNQVFVANLPWTMLEGDDIQVGKEFAARVEDCTNVKHDMAPTCTKPPPFC GPQDMKMFNFVGCSVLGNKLFIDQKYVRDLTAKDHAEVQTFREKIAAFEEQQENQPPSSGMPHGA VPAGGLSPPPPPSFCTVO

ASPIGEGTFDDGPEGWVAYGTDGPLDTSTGALCVAVPAGSAQYGVGVVLNGVAIEEGTTYTLRYTAT ASTDVTVRALVGQNGAPYGTVLDTSPALTSEPRQVTETFTASATYPATPAADDPEGQIAFQLGGFSA DAWTLCLDDVALDSE

ETVSTQELYSIPEDQEPEDQEPEEPTPAPWARLWALQDGFANLECVNDNYWFGRDKSCEYCFDEPLL KRTDKYRTYSKKHFRIFREVGPKNSYIAYIEDHSGNGTFVNTELVGKGKRRPLNNNSEIALSLSRNKVFV FFDLTVDDQSVY

MNISEINGFEVTGFVVRTTNADEMNPMTAKIGNLWEKFYLNAAPKLTDKSKVYGLYTNYESDFTGAF DVIACSDTLSPQLLSESVKTKVSSGKYVTFSATGEMPQVVIDLWNEVWNYFASEHCPHKRAYTTDFEY YKSANTVEISIAVR

GAQNEKNMYSYKKIGNKYIVSINNHTEIVKALNAFCKEKGILSGSINGIGAIGELTLRFFNPKTKAYDDKT FREQMEISNLTGNISSMNEQVYLHLHITVGRSDYSALAGHLLSAIQNGAGEFVVEDYSERISRTYNPDL GLNIYDFER

MATKLDYEDAVFYFVDDDKICSRDSIIDLIDEYITWRNHVIVFNKDITSCGRLYKELMKFDDVAIRYYGID KINEIVEAMSEGDHYINFTKVHDQESLFATIGICAKITEHWGYKKISESRFQSLGNITDLMTDDNINILILF I FKKI N

MGIVTGPIIDHSKENDVMNEAEQNAETVRRGYAAFNSGDMKTLTELFDENASWHTPGRSRIAGDHK GREAIFAQFGRYGGETGGTFKAVLLHVLKSDDGRVIGIHRNTAERGGKRLDVGCCIVFEFKNGRVIDGR EHFYDLYAWDEFWR

MPLPPDITFDSLALIKMHSQNMKRILEVTLAKFTVNLSIVTVYRYLTARAYLKKNIEAEFEILKDIYNIVPLL DDIAIKAAQIEANLIKKEITLDMEDIITATTAIYTNSLLVTDDPKRYEPIRRFGLDTMPLDKFIKEVELMVEK ELI

MEQRSAETRIVEALLERRRLKDTDLVRARQLQAESGMGLLALLGRLGLVSERDHAETCAEVLGLPLVD ARQLGDTPPEMLPEVQGLSLRFLKQFHLCPVGERDGRLDLWIADPYDDYAIDAVRLATGLPLLLHVGL RSEIDDLIERWYG

GMEIHFEKVTSDNRKAVENLQVFAEQQAFIESMAENLKESDQFPEWESAGIYDGNQLIGYAMYGRW QDGRVWLDRFLIDQRFQGQGYGKAACRLLMLKLIEKYQTNKLYLSVYDTNSSAIRLYQQLGFVFNGE LDTNGERVMEWTHONK

GMTDWQQALDRHVGVGVRTTRDLIRLIQPEDWDKRPISGKRSVYEVAVHLAVLLEADLRIATGATAD EMAQFYAVPVLPEQLVDRLDQSWQYYQDRLMADFSTETTYWGVTDSTTGWLLEAAVHLYHHRSQL LDYLNLLGYDIKLDLFE

GMLVRTLSALECTKVLTANRVGRLACAKDGQPYVVPLYYAYSDAHLYAFSMPGKKIEWMRANPRVS VQVDEHGQGRGWKSVVVDGRYEELPDLIGHKLQRDHAWSVLSKHTDWWEPGALKPVTPPTADSA PHVFFRILIEQVSGREASE

STGKKPKHHVLSHDIIPASKPIAEKLQIQPESPVVELKRILYNDDQPLTFEVTHYPLDLFPGIDTFIADGVS MHDILKQQYKVVPTHNTKLLNVVYAQQEESKYLDCDIGDALFEIDKTAFTSNDQPIYCSLFLMHTNRV TFTINSPYT

TTSGALFPSLVPGSRGSSTKYLVEFRAGKMSLKGTTVTPDKRKGLVYIQQTDDSLIHFCWKDRTSGTVE DDLIIFPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNECLNNPPMPGSL GASGSSGHELSAL

DPATVFRLVAAEALTLTGADGTLVAVPADPDASAAEELVIVEVAGAVPAEVEASAIPVQDNAIGQAFR DRAPRRLDVLDGPGLGGPALVLPLRATDTVAGVLVAVQGSGARPFTAEQLEMMTGFADQAAVAW QLASSQRRMSELDILAD

MIPMEELKVKKITNGTVIDHIDAGKALMVFKVLNVPKETSVMIAINVPSKKKGKKDILKIEGIELKKEDVD KISLISPDVTINIIRNGKVVEKLKPQIPDEIEGTLKCTNPNCITNKEKVRGKFKIESKNPLKIRCYYCEKFLNE VIFE

TDLSAQKRLAADVLDVGKNRVWFNPERQGDIADAITREDVRELVDEGAIQAKDKKGNSRGRARERQ KKRAKGHQKGAGSRKGKAGARQNSKEDWESRIRAQRTKLRELRDEGTLSSSQYRDLYDKAGGGEFD SVADLERYIDANHGDA

KYKALAREAALSKIGELASEIFAEFTEGKYSEVVVRAEENKVRLFVVWEGKERPLTFLSGGERIALGLAFRL AMSLYLAGEISLLILDEPTPYLDEERRRKLITIMERYLKKIPQVILVSHDEELKDAADHVIRISLENGSSKVE VVS

MANLFKLGAENIFLGRKAATKEEAIRFAGEQLVKGGYVEPEYVQAMLDREKLTPTYLGESIAVPHGTVE AKDRVLKTGVVFCQYPEGVRFGEEEDDIARLVIGIAARNNEHIQVITSLTNALDDESVIERLAHTTSVDE VLELLAGRK

MSNEDLFICIDHVAYACPDADEASKYYQETFGWHELHREENPEQGVVEIMMAPAAKLTEHMTQVQ VMAPLNDESTVAKWLAKHNGRAGLHHMAWRVDDIDAVSATLRERGVQLLYDEPKLGTGGNRINF MHPKSGKGVLIELTQYPKN

MKVALGGTFEPLHEGHKKLIDVAIKLGGRDITIGVTSDRMARARIRSVLPFAIRAENVKRYVMRKYGFEP EIVKITNPYGKTLDVDFEYLVVSPETYEMALKINQKREELGKRKITIVKVDWMMAEDGKPISSTRIKRGEI DRYGGII

DVTPLSLGIETLGGIMTKLITRNTTIPTKKSQVFSTAADGQTQVQIKVFQGEREMATSNKLLGQFSLVGI PPAPRGVPQVEVTFDIDANGIVNVSARDRGTGKEQQIVIQSSGGLSKDQIENMIKEAEKNAAEDAKR

# **KELVEVINQAE**

SPAPSRPFSVLRANDVLWLSLTAAEYDQSTYGSSTGPVYVSDSVTLVNVATGAQAVARSLDWTKVTL DGRPLSTIQQHSKTFFVLPLRGKLSFWEAGTTKAGYPYNYNTTASDQLLVENAAGHRVAISTYTTSLG AGPVSISAVAVLA

MNYSHPISLKTLVQEDDIGVNAPIIHQSVIARLTAGLYPLYQSKKIPFEPLPETMLTEGYSSPVPDVLLYD HQTEEAKVIIEVCQNSGLKHDTSKIVKLIEDNAYGILEGFVFNYKTQQWLRYRLGDGGVATNSSFSEVL OVDLNTFV

SMLPVLTLQHFQHMHIKVGDRAELRRAFTQTDVATFSELTGDVNPLHLNEDFAKHTKFGNTIVHGVLI NGLISALLGTKMPGPGCVFLSQEISFPAPLYIGEVVLASAEVKKLKRFIAIIAVSCSVIESKKTVMEGWVKV MVPEASKS

GHMTLYRLHEADLEIPDAWQDQSINIFKLPASGPAREASFVISRDASQGDAPFADYVARQLENAEKQ LPGFKLHKRWDINIHGHAAVLLDYQWQREGRDLMLRQVFIERRPAVLITTLTTTPADLPHHEPAWKQ AMQTLVPRPTPSGS

RASVGSPGIPAQDLPFVIKAGYLEKRRKDHSFLGFEWQKRWCALSKTVFYYYGSDKDKQQKGEFAIDG YDVRMNNTLRKDGKKDCCFEICAPDKRIYQFTAASPKDAEEWVQQLKFILQDLGSDVIPEDDEERGEL YDDVDHPAAVSS

MKTPTFGKREETLTYQTRYAAYIIVSKPENNTMVLVQAPNGAYFLPGGEIEGTETKEEAIHREVLEELGIS VEIGCYLGEADEYFYSNHRQTAYYNPGYFYVANTWRQLSEPLERTNTLHWVAPEEAVRLLKRGSHRW AVEKWLAAAS

VSYAGDITPLQAWEMLSDNPRAVLVDVRCEAEWRFVGVPDLSSLGREVVYVEWATSDGTHNDNFL AELRDRIPADADQHERPVIFLCRSGNRSIGAAEVATEAGITPAYNVLDGFEGHLDAEGHRGATGWRA VGLPWRQGRSHHHHHH

GMATSTDRTQEIQKLHELIKNIDYGMFTTVDDDGSLHSYPMSKSGDINSEATLWFFTYAGSHKVTEIE HHEQVNVSFSSPEQQRYVSISGTSQLVKDRNKMRELWKPELQTWFPKGLDEPDIALLKVNINQVNY WDSTSSFKPQTISF

GFQSNAMKQETPITLHVKSVIEDDGNQEVIEFRTTGFYYVKQNKVYLSYYEEHDLGKVKTIVKVSEGEV LVMRSGAVKMNQRFVTGASTIAKYKMSFGELELKTSTKSIQSDLDEEKGRISIAYDMHVGDEQEHLHN MTITYEGGTHA

SNAARGHRHTCKVMVLKEEAAGSERALALDMREGQRVFHSLIVHFENDIPVQIEDRFVNAQVAPDYL KQDFTLQTPYAYLSQVAPLTEGEHVVEAILAEADECKLLQIDAGEPCLLIRRRTWSGRQPVTAARLIHP GSRHRLEGRFTK

GPLGSGGGTIAMLNEISSDTLEQLYSLAFNQYQSGKYEDAHKVFQALCVLDHYDSRFFLGLGACRQA MGQYDLAIHSYSYGAVMDIKEPRFPFHAAECLLQKGELAEAESGLFLAQELIANKPEFKELSTRVSSML EAIKLKKEMKHE

GMSAGQSSLSFAHGDETHPIEQKAFIGVDSAAGNVVKQFHAALQMGNEAIVRQSLAANVQIYEGGK VERSLTEYANHHMLADMAYLKGLTITPKEHQITITGDIAISTSISHAQGEYKGKSIDSMTMETLVLIKQA DGRWKITHVHWS

SFDKTTFRLLRGESNLFYTLAKWENNKLHVELPENIDKQSPTMTLIYDENGQLLWAQRDVPWLMKMI QPDWLKSNGFHEIEADVNDTSLLLSGDHSIQQQLQEVRQNNNNAQMTHSVAVNVYPATSRMPKL TIVVVDTIPVELKSSYM

AHGSVVKSEDYALPSYVDRRDYPLPDVAHVKNLSASQKALKEKEKASWSSLSIDEKVELYRLKFKESFA EMNRSTNEWKTVVGAAMFFIGFTALLLIWEKHYVYGPIPHTFEEEWVAKQTKRMLDMKVAPIQGFSA KWDYDKNEWKK

GPHMTTIEDEDTKVRKQEIIKVTEQLIEAISNGDFESYTKMCDPGMTAFEPEALGNLVEGLDFHRFYFE NLWSRNSKPVHTTILNPHIHLMGDESACIAYIRITQYLDAGGIPRTAQSEETRVWHRRDGKWQIVHFH RSGAPSVLPH

ADLTSHHHHHHVEPARITLTYKEGAPITIMDNGNIDTELLVGTLTLGGYKTGTTSTSVNFTDAAGDPM YLTFTSQDGNNHQFTTKVIGKDSRDFDISPKVNGENLVGDDVVLATGSQDFFVRSIGSKGGKLAAGK YTDAVTVTVSNO

MRQDAEVIMKLTDADNAADGIFFPALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNI DMLIPRDLRPAHPEYIRHNREGGKARVEGMSRELQLEKKDGSKIWTRFALSKVSAEGKVYYLALVRDA SVEMAQKEQTRQLI

MTPGKLYTLRYEVEGGGFIEIATVRPETVFADQAIAVHPEDERYRHLLGKRARIPLTEVWIPILADPAVEK DFGTGALKVTPAHDPLDYEIGERHGLKPVSVINLEGRMEGERVPEALRGLDRFEARRKAVELFREAGHL VKFFDYT

TLHKERRIGRLSVLLLLNEAEESTQVEELERDGWKVCLGKVGSMDAHKVIAAIETASKKSGVIQSEGYRE SHALYHATMEALHGVTRGEMLLGSLLRTVGLRFAVLRGNPYESEAEGDWIAVSLYGTIGAPIKGLEHET FGVGINHI

AFMSQMMQMYQQVGPAQFSAMIGQFAPYFASIAPQFVELRPGYAEVTFPKRREVLNHIGTVHAIAL CNAAELAAGTMTDASIPAGHRWIPRGMTVEYLAKATGDVRAVADGSQIDWQATGNLVVPVVAYV DDKPVFRAEITMYVSOA

MSMPRYYEYRHVVGFEETNLVGNVYYVNYLRWQGRCREMFLYEHAPEILDELRADLKLFTLKAECEFF AELAPFDRLAVRMRLVELTQTQMELGFDYLRLGGDDLLVARGRQRIACMRGPNGRTEPVRVPAGLV RAFAPFRSATVGQ

ICYDAFVSYSERDAYWVENLMVQELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTVFVLSENFV KSEWSKYELDFSHFRLFDENNDAAILILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEAQREGFWVN

## **LRAAIKS**

VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQKVTGLDFIPGLHPILTLSKMDQTLAVYQQILTSMPSR NVIQISNDLENLRDLLHVLAFSKSCHLPEASGLETLDSLGGVLEASGYSTEVVALSRLQGSLQDMLWQ LDLSPGC

MLDQQTINIIKATVPVLKEHGVTITTTFYKNLFAKHPEVRPLFDMGRQESLEQPKALAMTVLAAAQNIE NLPAILPAVKKIAVKHCQAGVAAAHYPIVGQELLGAIKEVLGDAATDDILDAWGKAYGVIADVFIQVE ADLYAQAVE

MAESQALSDDIGFLLSRVGGMVLGAVNKALVPTGLRVRSYSVLVLACEQAEGVNQRGVAATMGLDP SQIVGLVDELEERGLVVRTLDPSDRRNKLIAATEEGRRLRDDAKARVDAAHGRYFEGIPDTVVNQMR DTLQSIAFPTFVE

GETVVRDAVTIGKPAEQLYAVWRDLPGLPLLMTHLRSVEVLDDKRSRWTVEAPAPLGTVSWEAELTA DEPGKRIAWRSLPGARIENSGEVLFRPAPGARGTEVVVRLTYRPPGGSAGAVIARMFNQEPSQQLRD DLMRFKREQELG

GGEGTDAIQALIQAYFTAWNTNAPERFAEIFWPDGSWVNVVGMHWRGRDQIVFAHTAFLKTIFKDC KQELVTIEARTIAPGSALAVVTLIQDAYVTPDGRQMPRAHDRLTLLAVEREGVWRFIHGHNTIVNPDA ANNDPVLRMKPA

STAADLLRQGAACSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFKVSAQGITLTDNQRK LFFRRHYPVNSITFSSTDPQDRRWTNPDGTTSKIFGFVAKKPGSPWENVCHLFAELDPDQPAGAIVTFI TKVMLGORK

GQDRSPIETQNVETVLRLFDEGWGAQDGWRDVWRETMTPGFRSIFHSNQAVEGIEQAIAFNAVLFE GFPRLEVVVENVTVEGDNVVVQARLTGAQDGPFLGVPPSGQMVDVPDVTLFTLADGQVIEMRYFT DLLAVMTAISAPPEN

MSSERTFLPNGNYKIKSLFSDSLYLTYSSGSLSFLNTSSLDNQKWKLEYISSSNGFRFSNVAEPNKYLAY NDYGFIYLSSSSNNSLWNPIKIAINSYIICTLSIVNVTDYAWTIYDNNNNITDQPILNLPNFDINNSNQIL KLEKL

MVKRTSHKQASCPVARPLDVIGDGWSMLIVRDAFEGLTRFGEFQKSLGLAKNILAARLRNLVEHGVM VAVPAESGSHQEYRLTDKGRALFPLLVAIRQWGEDYFFAPDESHVRLVERDSGQPVPRLQVRAGDGS PLAAEDTRVSRD

GHMAQTDKHYFGTLLAQTSRAWRAELDRRLSHLGLSQARWLVLLHLARHRDSPTQRELAQSVGVE GPTLARLLDGLESQGLVRRLAVAEDRRAKHIVLTPKADVLIADIEAIAASVRNDVLTGIDESEQALCQQ VLLRILANLENR

MAQERPSCAVEPEHVQRLLLSSREAKKSAYCPYSRFPVGAALLTGDGRIFSGCNIENACYPLGVCAER TAIQKAISEGYKDFRAIAISSDLQEEFISPCGACRQVMREFGTDWAVYMTKPDGTFVVRTVQELLPASF GPEDLOKIO

MIEVKPINAEDTYELRHRILRPNQPIEACMFESDLLRGAFHLGGYYGGKLISIASFHQAEHSELQGQKQ YQLRGMATLEGYREQKAGSSLIKHAEEILRKRGADLLWCNARTSASGYYKKLGFSEQGEVFDTPPVGP HILMYKRIT

MESVADIQQLEEKVDESDVRIYFNEKSSGGKISIDNASYNARKLGLAPSSIDEKKIKELYGDNLTYEQYLE YLSICVHDKDNVEELIKMFAHFDNNCTGYLTKSQMKNILTTWGDALTDQEAIDALNAFSSEDNIDYKL FCEDILO

MSHDVKELIEGLNEDLAGEYSAIIMYNHNAATVSGIYRQVLKPFFESEISDEQGHALYLAEKIKTLGGTP TTIPLRVKQAEDVREMLEYARQSEYETIKRYEKRKEQAANLNMTELVVKLEDMIADETNHMEELDRLL NDKAMVLN

AREGIIGHYIHHNQRVGVLVELNCETDFVARNELFQNLAKDLAMHIAMMNPRYVSAEEIPAEELEKER QIYIQAALNEGKPQQIAEKIAEGRLKKYLEEVVLLEQPFVKDDKVKVKELIQQAIAKIGENIVVRRFCRFEL GAMMC

MMGIMSDPITILDSSDSLSRLSSESVGRLVVHRKDDLDIFPVNFVLDYSAEQPRVYFRTAEGTKLFSVNL NSDVLFEVDRFDDAEGWSVVLKGNAYVVRDTEEARHADTLGLKPWLPTLKYNFVRIDVREVSGRAFV FGEEPERY

MRNKNMSTIYQTSATASAGRNGVVSTEDKLLELNLSYPKEMGGSGTATNPEQLFAVGYAACFSNAIL HVAREAKVALKEAPVTATVGIGPNGQGGFALSVALAAHIALEDEQARQLVTVAHQVCPYSNAVRGN IDVQVSVNGLAL

MSNPQPEKVRVVVGDDHPLFREGVVRALSLSGSVNVVGEADDGAAALELIKAHLPDVALLDYRMPG MDGAQVAAAVRSYELPTRVLLISAHDEPAIVYQALQQGAAGFLLKDSTRTEIVKAVLDCAKGRDVVA PSLVGGLAGEIR

KPQIPKDKSKVAGYIEIPDADIKEPVYPGPATPEQLNRGVSFAEENESLDDQNISIAGHTFIDRPNYQFT NLKAAKKGSMVYFKVGNETRKYKMTSIRDVKPTDVGVLDEQKGKDKQLTLITADDYNEKTGVWEKRK IFVATEVK

MDELLNRLRQTWHSTIPVSEFMQIAPLSFTDGELSVSAPLAPNINLHHTMFAGSIYTIMTLTGWGMV WLQQQLLNVDGDIVLADAHIRYLAPVTSAPEVKVRWPDTNLSPLQRGRKAKVKLEVQLFCDGKLCA OFDGLYVSVPKM

GSMKQPFERILREICFMVKVEGRKVLRDFGITPAQFDILQKIYFEGPKRPGELSVLLGVAKSTVTGLVKRL EADGYLTRTPDPADRRAYFLVITRKGEEVIEKVIERRENFIEKITSDLGKEKSSKILDYLKELKGVMERNFSK Q

MAAHELKEALETLKETGVRITPQRHAILEYLVNSMAHPTADDIYKALEGKFPNMSVATVYNNLRVFRE SGLVKELTYGDASSRFDFVTSDHYHAICENCGKIVDFHYPGLDEVEQLAAHVTGFKVSHHRLEIYGVC

# **QECSKKENH**

MSMAERKALCLEMVAAWNRWDLSGIIKHWSPDIVHYSEDNEVSSADMVKLMEGGLKAFPDLQLEV KSIMAEEDRVALRITVTATHQGEFMGVQPTGQRVSWHLVEELRFVDGKVVEHWDVINMRPLLVRLG KLPDVPKVVLEASA

GSHHPFTAQIVAVTASGYDSEKGHVPANIADGDVKTRWAASGESWVQLELDKEQSIENILIVPFKPTE RKLKFSIFYSNDGKNWQPLAEGLETSSADKNGEKLTFTPVTAKYIKLDTFGTDVNNWSAINEIAINSAA ALPSRAIK

ATSANTDRIATAELGIAENKKDAQIAKAQANENKDGIAKNQADIQLHDKKITNLGILHSMVARAVGN NTQGVATNKADIAKNQADIANNIKNIYELAQQQDQHSSDIKTLAKVSAANTDRIAKNKAEADASFET LTKNQKLCSQA

MDVQRVGKAGLHRVDSKKQQTAAGVSFSEVMGKQRDEKAYERLQALMSKIDDQGKLLSETRTIEEL RKYKELVKEFVGDAVELGLRLEERRGFNRRGRTKIYKIVKEVDRKLLDLTDAVLAKEKKGLDILNMVGEIK GLLINIYA

MRGSHHHHHHGSMSNINLVQLVRDSLFTIGCPPSIITDLDSHSAITISLDSMPAINIALVNEQVMLWA NFDAPSDVKLQSSAYNILNLMLMNFSYSINELVELHRSDEYLQLRVVIKDDYVHDGIVFAEILHEFYQR MEILNGVL

RPRGPRAVFILPVTAQGEAVLIRQFRYPLRATITEIVAGGVEKGEDLGAAAARELLEEVGGAASEWVPLPGFYPQPSISGVVFYPLLALGVTLGAAQLEDTETIERVVLPLAEVYRMLEAGEIQDGPSSLTLWQARGELTRRGLL

GSHMPLPIPSLLIAGIGCRRGCSAEHLRALLERTLGEHGRSLAELDALASIDGKRDEPGLRQLATLLERPV HFLAPAVLHDYEPRLLSPSAVALRETGCSSVAEAAALALAERLGGGRADLLGAKRSDDRASIALARLLT ERELP

MSATGLEVFDRTLHKTHAWLKAIMEELGTEDRHKAYLALRAVLHALRDRLTVEEVAQLAAQLPMLVR GLYYEGWDPTGKPLKERHKEAFLAHVAEELKTPSGPAVDPEAATRAVFKVLSREISQGELEDVLGLLPK ELRALWPQG

STARMQGAGKALHELLLSAQRQGCLTAGVYESAKVLNVDPDNVTFCVLAADEEDEGDIALQIHFTLI QAFCCENDIDIVRVGDVQRLAAIVGSDEEGGAPGDLHCILISNPNEDTWKDPALEKLSLFCEESRSFN DWVPSITLPE

GMEVIESKWYKKDGASSASIDDVEKLLNTTLPKQYKSFLLWSNGGEGKLGDNYIYIWAIEDVIAYNHD YGIQKYLQKEYWAFGMDGDIGYILHLSDNSIYRVDLGDLDITSIKYIAPSFDDFLGKAIYLNFNKLQNVA NNNI TT

MYFVDRSKIEKTLGFFEHQLALFDSQTDWQSEIGELALQRIGHLLIECILDTGNDMIDGFIMRDPGSYD DIMDILVDEKVVTEKEGDELKKLIAYRKTLVQQYLLADSGELYRLIKAHQTALQDFPKRIRSYLETELGPV SAFK

GMDTNGVLYAANMTNALAKEIPESKWDIQLIPELGTLRKLFIHIVRVRDVYRDGLKTGSIKFPGRLASD EHRLLDELERSMEELVFEFKQTTFNSIKMGENYLSIMELLGTVIQHEGIHQGQYYVALKQSGINLPKQW VODWHM

MTAVRRIRAAALPDLPDASWSNALLVGEELVMSGMTAHPATRQAAERGAALDAHAQALVVLGKVK ALLEAAGGHVGNLYKLNVYVTRIADKDAIGRARQEFFAGQGTFPASTLVEVSGLVFPELLVEIDAWAR LDIDLANCDEA

RETHFLKIPIGDLNIITODNMKSCOMTTPVIDVIOMLTOGRVSSVPIIDENGYLINVYEAYDVLGLIKGGI

YNDLSLSVGEALMRRSDDFEGVYTCTKNDKLSTIMDNIRKARVHRFFVVDDVGRLVGVLTLSDILKYIL LGSN

SNAMEIRVFRQEDFEEVITLWERCDLLRPWNDPEMDIERKMNHDVSLFLVAEVNGEVVGTVMGGYD GHRGSAYYLGVHPEFRGRGIANALLNRLEKKLIARGCPKIQINVPEDNDMVLGMYERLGYEHADVLSL GKRLIEDEEY

ASRFHEQFIVREDLMGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAVKKARSFLEFAE DVIQVPRNLVGKVIGKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEGMVPFVFVGTKDSIANATVLLD YHLNYLK

GMELTALDKLEIMELAARFEMSLDKEDVENYLATFASDGALQGFWGIAKGKEELRQGFYAMLDTFAR GKRHCSSNAIIQGNYDEATMESYLTVVNREDLNRAGSAFVKDQVRKINGKWYLILRQIEVDPSLPLLQ QSQQAGANA

MLYLTQRLEIPAAATASVTLPIDVRVKSRVKVTLNDGRDAGLLLPRGLLLRGGDVLSNEEGTEFVQVIA ADEEVSVVRCDDPFMLAKACYHLGNRHVPLQIMPGELRYHADHVLDDMLRQFGLTVTFGQLPFEPE AGAYASES

MSGDRDDPRYPYPKDDAELRRRLTPMQYEVTQHAATEPPFTGEYTDTEDAGIYHCVVCGTALFESGA KYHSGCGWPSYFKPIDGEVIDEKMDYTHGMTRVEVRCNQCGAHLGHVFEDGPRDKTGLRYCINSAA LNFEAKPERK

MRKIDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVRIERLVIQSYFVQTL KIEKSTSKEPVDFEQWIEKDLVHTEGQLQNEEIVAHGSATYLRFIIVSAFDHFASVHSVSAEGTVVSNLS S

MGSDKIHHHHHHMKLSDFIKTEDFKKEKHVPVIEAPEKVKKDEKVQIVVTVGKEIPHPNTTEHHIRWIK VFFQPDGDPYVYEVGRYEFNAHGESVQGPNIGAVYTEPTVTTVVKLNRSGTIIALSYCNIHGLWESSQ KITVEE

MTIHKKGQAHWESDIKRGKGTVSTESGVLNQQPYGFNTRFEGEKGTNPEELIGAAHAACFSMALSL MLGEAGFTPTSIDTTADVSLDKVDAGFAITKIALKSEVAVPGIDASTFDGIIQKAKAGCPVSQVLKAEITL DYQLKS

GMQDERWNHPLYTTTAINDEELEGHAYIPGGLKVQTSSPMNDHPGTNPEQLLGLSLSTCLEATLEAV EKEHGLPHTGAVRVKVAFIGARAEYQFLVHAQVMVKGVDFDTAKAFTNEIENRCPVSKLLKNSGNYTI FTVTDFKD

MMLLPKRTKFRKQFRGRMTGDAKGGDYVAFGDYGLIAMEPAWIKSNQIEACRIVMSRHFRRGGKIYI RIFPDKPVTKKPAETRMGKGKGAVEYWVSVVKPGRVMFEVAGVTEEQAKEAFRLAGHKLPIQTKMVK REVYDEAO

MSHQTGIQASEDVKEIFARARNGKYRLLKISIENEQLVVGSCSPPSDSWEQDYDSFVLPLLEDKQPCY VLFRLDSQNAQGYEWIFIAWSPDHSHVRQKMLYAATRATLKKEFGGGHIKDEVFGTVKEDVSLHGYK KYLLSQS

GPSDMYVHVGNLIYRNLHLFNSEMHESILVSYSSDLIIYRTNTVGDDYIPSCDCTQATYYCKHKNRYFP ITVTSHDWYEIQESEYYPKHIQYNLLIGEGPCEPGDCGGKLLCKHGVIGIVTAGGDNHVAFIDLRHFHC AEEO

>DM\_train2153

GSHMGQGGSNPKFENIAEGLRALLARSHVERTTDEGTWVAGVFVYGGSKTSLYNLRRGTALAIPQCR LTPLSRLPFGMAPGPGPQPGPLRESIVCYFMVFLQTHIFAEVLKDAIKDLVMTKPAPTCNIRVTVCSFD DGVDLP

AESVQPLEKIAPYPQAEKGMKRQVIQLTPQEDESTLKVELLIGQTLEVDCNLHRLGGKLENKTLEGAAA AYYVFDKVSSPVSTRMACPDGKKEKKFVTAYLGDAGMLRYNSKLPIVVYTPDNVDVKYRVWKAEEKI DNAVVR

MIRVMATGVFDILHLGHIHYLKESKKLGDELVVVVARDSTARNNGKIPIFDENSRLALISELKVVDRAIL GHEGDMMKTVIEVKPDIITLGYDQKFDEAELQSKINKLGITVKIVRISKYDGQLNSSSSVRKKIMELIGER Y

SDRPAGRMPLTVHRNVGRWLSEILHASIRDTGVSSRIEFVRRTLHGWVREEYSETELPNAVYRNLYFPV LDAQPAHAGSGKIETISECDRLKNLVRNVTDTLVENYPQGLESEALLIALDGVKLELARIRKDIEMYGDP RKR

MGSDKIHHHHHHPPEAYSLDTAIFVLETRDYRLSDVKEIDSYGDVEMKGKVAVFETEYGPVFLYVYKG EEAKKIWKKLNGRAGFVSIRSVLDLPNMGKFSTVSNGKKIVAWWRKNWLFIVEGKNGVEEFVKHVYR VYEEMKO

ATEATNATNNQSTQVSQATSQPINFQVQKDGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNA SFWKEYKFYNANNQELATTVVNDNKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEK AIPTLADAAK

DNGCSVAAESTNFTVDLMENAAKQFNNIGATTPVVPFRILLSPCGNAVSAVKVGFTGVADSHNANL LALENTVSAASGLGIQLLNEQQNQIPLNAPSSALSWTTLTPGKPNTLNFYARLMATQVPVTAGHINA TATFTLEYO

EGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSHCWISEMVVQLSDSLTDLLDKFSNISE GLSNYSIIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVV S

FDDVVVSRQEQSYVQRGMVNFLDEEMHKLVKRFRDMRWNLGPGFVFLLKKVNRERMMRYCMDY ARYSKKILOLKHLPVNKKTLTKMGRFVGYRNYGVIRELYADVFRDVQGFRGPKMTAAMRKYSSKDPG

## **TFPCKNEKRRG**

MALEPIDYTTHSREIDAEYLKIVRGSDPDTTWLIISPNAKKEYEPESTGSSFHDFLQLFDETKVQYGLARV SPPGSDVEKIIIIGWCPDSAPLKTRASFAANFAAVANNLFKGYHVQVTARDEDDLDENELLMKISNAA GA

MPRVVPDQRSKFENEEFFRKLSRECEIKYTGFRDRPHEERQTRFQNACRDGRSEIAFVATGTNLSLQFF PASWQGEQRQTPSREYVDLEREAGKVYLKAPMILNGVCVIWKGWIDLHRLDGMGCLEFDEERAQQ EDALAQQ

EPRFAGYAQKVRDSFARQPVMATLGARIDTLLPGRVELCMPYDRALTQQHGFLHAGIVSTVLDSACG YAAFSLMEEEAAVLTVEFKVNFLNPAEGERFAFRAEVVKPGRTLTVATATAYAFRDGEERAIATMTATL MALIG

MTENGRYEYIVIGSEAAGVGLVRELTAAGKKVLAVDKSKEKIELLEDEGFDAVIADPTDESFYRSLDLEG VSAVLITGSDDEFNLKILKALRSVSDVYAIVRVSSPKKKEEFEEAGANLVVLVADAVKQAFMDKIKKMET I

MRPIPEGYEAVFETVVTPEMTVRFEELGPVHPVYATYWMVKHMELAGRKIILPFLEEGEEGIGSYVEAR HLASALPGMRVRVVARHEKTEGNRVYARVEAYNELGDLIGVGRTEQVILPKAKVEALFRRLKERWEAE RSPS

MKFLTTNFLKCSVKACDTSNDNFPLQYDGSKCQLVQDESIEFNPEFLLNIVDRVDWPAVLTVAAELG NNALPPTKPSFPSSIQELTDDDMAILNDLHTLLLQTSIAEGEMKCRNCGHIYYIKNGIPNLLLPPHLVHH HHHH

>DM\_train2170

GMEMTKVTGKFDVKLTPENAYATGVGGVNLGRMALDKTFYGELEARSQGEMLSAMTAVKGSAGYV AIEQVVGKLCGRQGSFVLQHFGIMTDGQNRLHLEVVPHSGAGELTGLYGTMAISIENGQHFYEFSFCF EPASEVEG

>DM train2171

MAHHHHHMGSRISKEAAPVTFKNGKPTVKGTKTYPMFSNILYRIADTEARRWAFYNDSKELIIHVAV LFDYDSQIVPLGDTTAFRIDDPDEGNEDDFGKYLCEVDVRPLETQMFVEGSVTGWRVDTLEARTAED ERGYRL

>DM\_train2172

GHMENKVINFKKIIDSRGSLVAIEENKNIPFSIKRVYYIFDTKGEEPRGFHAHKKLEQVLVCLNGSCRVIL DDGNIIQEITLDSPAVGLYVGPAVWHEMHDFSSDCVMMVLASDYYDETDYIRQYDNFKKYIAKINLE KEG

>DM\_train2173

GMDQESNATSQDILKQHAAHYESDMGGLPEALVQLAEYAPETFDAYSRMRTTMLKSEADGAKLPLK YKHLILVVLDAIRDEPIGIVNHTRAAMNAGLSVDELIEGILLGIIVYGMPAWGKTGRKAVTFAVEFEKELA GKRT

>DM\_train2174

NLYFQGMRFVNPIPFVRDINRSKSFYRDRLGLKILEDFGSFVLFETGFAIHEGRSLEETIWRTSSDAQEAY GRRNMLLYFEHADVDAAFQDIAPHVELIHPLERQAWGQRVFRFYDPDGHAIEVGESLSQSGENLYFQ GGS

>DM\_train2175

NIEQQLYDVVKQLIEQRYPNDWGGAAAIRVEDGTIYTSVAPDVINASTELCMETGAILEAHKFQKKVT HSICLARENEHSELKVLSPCGVCQERLFYWGPEVQCAITNAKQDIIFKPLKELQPYHWTEAYHDEMVK EWSTR

>DM train2176

PKQVGNAQHLYDNYDLVPAMIAEVNPRDMVVMALVNTNVDPTLPPRWALATRNITAIPGIEGDTR KVGTRIPAVAVTGQRSVGNQDSWDQISPMPIAWATPDSSVIARAESTIPSEQWTTLSKNLNKLDQVR FTKEDI I FI

>DM train2177

MAETKIVVGPOPFSVGEEYPWLAERDEDGAVVTFTGKVRNHNLGDSVNALTLEHYPGMTEKALAEIV

DEARNRWPLGRVTVIHRIGELWPGDEIVFVGVTSAHRSSAFEAGQFIMDYLKTRAPFWKREATPEGD RWVEAR

>DM train2178

SGDRSMVEVLADHPGELVRTDSPNFLSSVLPTHWRSNKTLPIAFKVVALGDVPDGTLVTVMAGNDE NYSAELRNATAAMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKITVDGPREPRRH RQKLDD

>DM train2179

MASVDFKTYVDQACRAAEEFVNVYYTTMDKRRRLLSRLYMGTATLVWNGNAVSGQESLSEFFEMLP SSEFQISVVDCQPVHDEATPSQTTVLVVICGSVKFEGNKQRDFNQNFILTAQASPSNTVWKIASDCFR FODWAS

>DM train2180

GMRNPSEDHMMRTPYQIVADHYAASDRHDPAAMMADIAPAIEWTEMAGFPCAGTYRSADEIVRN VFRRLGEEWDGYTFKLDALHDAGDTVIGVGRYSGTYRRTGKSFECRVAHVWRVDAGKIVHFEQFTDT LLVAQAMQP

>DM\_train2181

>DM train2182

MATEPKAGRPSDYMPEVADDICSLLSSGESLLKVCKRPGMPDKSTVFRWLAKHEDFRDKYAKATEAR ADSIFEEIFEIADNAIPDAAEVAKARLRVDTRKWALARMNPRKYGDKVTNELVGKDGGAIQIETSPMST LFGK

>DM\_train2183

ASRTMVSSGSEFESAVGYSRAVRIGPLVVVAGTTGSGDDIAAQTRDALRRIEIALGQAGATLADVVRT RIYVTDISRWREVGEVHAQAFGKIRPVTSMVEVTALIAPGLLVEIEADAYVGSAVADRNSGAGPKDPS PAGG

>DM train2184

KVILYARVSSNTQKDDLANQVKYLEEQVKEYDLVITDIGSGLNMKRKGFLKLLRMILNNEVSRVITAYP DRLVRFGFEILEEVCKAHNCEIVVLNQEDKTPEEELVEDLATILVSFSGKLHGMRSQKYEKVKKCAEELK N

MGSDKIHHHHHHMAYVKERIYESMFIIAPNVPEEERENLVERVKKIIEERVKGKIDKVERMGMRKFAYEI KKFNEGDYTVIYFRCDGQNLQELENFYRVTPEIIRWQTFRRFDLEKKERKAQREKAAAEATESSEGGSE D

KRKEAVIIMNVAAHHGSELNGELLLNSIQQAGFIFGDMNIYHRHLSPDGSGPALFSLANMVKPGTFDP EMKDFTTPGVTIFMQVPSYGDELQNFKLMLQSAQHIADEVGGVVLDDQRRMMTPQKLREYQDIIRE VKDANA

STVVMADVSQYHVNHLVTFCLGEEDGVHTVEDASRKLAVMDSQGRVWAQEMLLRVSPSQVTLLDP VSKEELESYPLDAIVRCDAVMPRGRSRSLLLLVCQEPERAQPDVHFFQGLLLGAELIREDIQGALQNYR SGRGER

MATTAKEEMARFWEKNTKSSRPLSPHISIYKWSLPMAMSITHRGTGVALSLGVSLFSLAALLLPEQFPH YVAVVKSLSLSPALIYSAKFALVFPLSYHTWNGIRHLVWDMGKGFKLSQVEQSGVVVLILTLLSSAAIAS E

GMSAKDVFHQVVKIALEKDGWQITNDPLTISVGGVNLSIDLGAEKLIAAEREGEKIAVEVKSFLERSSAI SEFHTALGQFINYRGALRRRQPERVLYLAVPLTTYKTFFQLDFPKEMIAENQVKMLIYDVEQEVIFQWI N

>DM\_train2194

>DM train2187

GAMSVASLPECVKNFFPTEQLEFSSSITADEKPVLHEVFQKHSCFSQCGEMIDEVSKKHPELGKRLATV LEGNKKRLDGLSPAAVEYAKKLIHMVTTTLCSLTVGKPIDDADAKRLHQEFQSLSSEDQAALRKNNPD IKF

>DM\_train2195

MTEKKERIDVHAYLAEFDDIPGTRVFTAQRARKGYNLNQFAMSLMKAENRERFKADESAYLDEWNLT

PAAKAAVLARDYNAMIDEGGNVYFLSKLFSTDGKSFQFAAGSMTGMTQEEYAQMMIDGGRSPAGV RSIKGGY

>DM train2196

MANAASGMAVHDDCKLRFLELKAKRTHRFIVYKIEEKQKQVVVEKVGQPIQTYEEFAACLPADECRY AIYDFDFVTAENCQKSKIFFIAWCPDIAKVRSKMIYASSKDRFKRELDGIQVELQATDPTEMDLDVFRS RAN

MRITQGTFSFLPELTDEQITKQLEYCLNQGWAVGLEYTDDPHPRNTYWEMFGLPMFDLRDAAGILM EINNARNTFPNHYIRVTAFDSTHTVESVVMSFIVNRPADEPGFRLVRQEEPGRTLRYSIESYAVQAGPE GSRY

>DM train2198

MRGSGQFRVIGPGHPIRALVGDEAELPCRISPGKNATGMEVGWYRSPFSRVVHLYRNGKDQDAEQA PEYRGRTELLKESIGEGKVALRIQNVRFSDEGGYTCFFRDHSYQEEAAVELKVEDPFYWINPGRSRSHH HHHH

>DM\_train2199

GMKAADFTYVTVHGDNSRMSRLKAQYTMLFFYDPDCSNCRKFEKLFAEIPAFVEMVENGTLRVLAIY PDENREEWATKAVYMPQGWIVGWNKAGDIRTRQLYDIRATPTIYLLDGRKRVILKDTSMEQLIDYLAT OAGK

>DM\_train2200

MGSVVPHYSWFSGITQFQKGKEFQFAEGQGVPIANGIPASEQKGYWYRHNRRSFKTPDGQQKQLLP RWYFYYLGTGPHAGASYGDSIEGVFWVANSQADTNTRSDIVERDPSSHEAIPTRFAPGTVLPQGFYV EGSGRS

>DM\_train2201

KVVKFSYMWTINNFSFCREEMGEVIKSSTFSSGANDKLKWCLRVNPKGLDEESKDYLSLYLLLVSCPKS EVRAKFKFSILNAKGEETKAMESQRAYRFVQGKDWGFKKFIRRDFLLDEANGLLPDDKLTLFCEVSVV OD

>DM\_train2202

>DM train2203

MGKRFSSFQAAQIRIARPTGQLDEIIRFYEEGLCLKRIGEFSQHNGYDGVMFGLPHADYHLEFTQYEGG STAPVPHPDSLLVFYVPNAVELAAITSKLKHMGYQEVESENPYWSNGGVTIEDPDGWRIVFMNSKGIS GK

>DM\_train2204

GGGGSSGGSTGGGSGSGPVTIEIGSKGEELAFDKTELTVSAGQTVTIRFKNNSAVQQHNWILVKGGE AEAANIANAGLSAGPAANYLPADKSNIIAESPLANGNETVEVTFTAPAAGTYLYICTVPGHYPLMQGK LVVN

>DM train2205

DDDGEHGGRRAALVVTDPLTRTECSACHMAYPAALLPARSWTALMADLPNHFGEDASLDEASRGQ IESYLVANAADSSGAGRALRGLVQTDTPLRISELPWFKRKHADEVSPRMLEKARSMSNCAACHTGAE RGI FDDD

>DM train2206

GMPQTITRGIKAMLDEANSSIETLTTADAIALHKSGASDVVIVDIRDPREIERDGKIPGSFSCTRGMLEF WIDPQSPYAKPIFQEDKKFVFYCAGGLRSALAAKTAQDMGLKPVAHIEGGFGAWRDAGGPIEAWAP KKK

>DM\_train2207

GAMGDSIKQLLMAGQINKAFHQALLANDLGLVEFTLRHTDSNQAFAPEGCRLEQKVLLSLIQQISAD MTNHNELKQRYLNEALLAINMADPITREHAPKVLTELYRNCQQFIKNSPKNSQFSNVRLLMKAIITYR DQLK

>DM train2208

MGFNVKTPLLATDVIIRLWDGENFKGIVLIERKYPPVGLALPGGFVEVGERVEEAAAREMREETGLEVR LHKLMGVYSDPERDPRAHVVSVVWIGDAQGEPKAGSDAKKVKVYRLEEIPLDKLVFDHKKIILDFLKG NY

>DM\_train2209

MKPKLILMSHGRMAEETLASTQMIVGELADAAIVSMTAEDGLSGTQAKLAAILKEAGNVPTLVLADLK GGTPCNVAMMAMGTYPQLRVVAGLNLAMAIEAAVSPVENVDELAAYLTQIGQSAVTTIDLPELTDE EEFEE

>DM train2210

QQVAVITLGIGDLEASARFYGEGFGWAPVFRNPEIIFYQMNGFVLATWLVQNLQEDVGVAVTSRPGS MALAHNVRAETEVAPLMERLVAAGGQLLRPADAPPHGGLRGYVADPDGHIWEIAFNPVWPIGADG SVTFAAK

MVVKAAGLVIYRKLAGKIEFLLLQASYPPHHWTPPKGHVDPGEDEWQAAIRETKEEANITKEQLTIHE DCHETLFYEAKGKPKSVKYWLAKLNNPDDVQLSHEHQNWKWCELEDAIKIADYAEMGSLLRKFSAFL AGF

>DM train2213

MQSTVHIVGDNTGWSVPSSPNFYSQWAAGKTFRVGDSLQFNFPANAHNVHEMETKQSFDACNFV NSDNDVERTSPVIERLDELGMHYFVCTVGTHCSNGQKLSINVVAANATVSMPPPSSSPPSSVMPPPV MPPPSPS

>DM\_train2214

>DM train2215

ENQRQQFPVEHVQLLCINCMVAVGHGSDLRKVEGTHHVNVNPNFSNYYNVSRDPVVINKVFKDW KPGGVISCRNCGEVWGLQMIYKSVKLPVLKVRSMLLETPQGRIQAKKWSRVPFSVPDFDFLQHCAEN LSDLSLD

>DM\_train2216

>DM\_train2217

MSARISLFAVVVEDMAKSLEFYRKLGVEIPAEADSAPHTEAVLDGGIRLAWDTVETVRSYDPEWQAPT GGHRFAIAFEFPDTASVDKKYAELVDAGYEGHLKPWNAVWGQRYAIVKDPDGNVVDLFAPLPLEHH HHHH

>DM train2219

MAKLTRLGDLERAVMDHLWSRTEPQTVRQVHEALSARRDLAYTTVMAVLQRLAKKNLVLQIRDDRA HRYAPVHGRDELVAGLMVDALAQAEDSGSRQAALVHFVERVGADEADALRRALAELEAGHGNRPP AGAATET

>DM\_train2220

MSSGVDLGTENLYFQSMDLALIPDVDIDSDGVFKYVLIRVHSAPRSGAPAAESKEIVRGYKWAEYHAD IYDKVSGDMQKQGCDCECLGGGRISHQSQDKKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEVTWA NDGY

>DM\_train2221

>DM train2222

GMATVRLLDDAEISTLPEVKAVFDDIRATRGSDFVNNIWRGLANDPALLKRTWEQVKTVMVGEGAL DPLTREMIYLAVSTANSCSYCAHSHTAAARAKGMTPAQHAEVLAIIGLAAQTNALVTAMQIPVDEAF LVDGK

>DM\_train2223

MSVLDELYREILLDHYQSPRNFGVLPQATKQAGGMNPSCGDQVEVMVLLEGDTIADIRFQGQGCAI STASASLMTEAVKGKKVAEALELSRKFQAMVVEGAPPDPTLGDLLALQGVAKLPARVKCATLAWHAL EEALR

>DM\_train2224

GHMNTTLFRWPVRVYYEDTDAGGVVYHASYVAFYERARTEMLRHHHFSQQALMAERVAFVVRKM TVEYYAPARLDDMLEIQTEITSMRGTSLVFTQRIVNAENTLLNEAEVLVVCVDPLKMKPRALPKSIVAEF KOGS

>DM\_train2225

EEQPRLFELLGQPGYKATWHAMFKGESDVPKWVSDASGPSSPSTSLSLEGQPYVLANSCKPHDCGN NRLLVAFRGDKSAAYGLQVSLPDEPAEVMQTPSKYATYRWYGEPSRQVRELLMKQLESDPNWKLEH HHHHH

>DM\_train2226

>DM\_train2227

>DM\_train2228

MQNLLKNLAASLGRKPFVADKQGVYRLTIDKHLVMLAPHGSELVLRTPIDAPMLREGNNVNVTLLRS LMQQALAWAKRYPQTLVLDDCGQLVLEARLRLQELDTHGLQEVINKQLALLEHLIPQLTPFSVASRV GWN

>DM\_train2229

VAMVNTTTRLSDDALAFLSERHLAMLTTLRADNSPHVVAVGFTFDPKTHIARVITTGGSQKAVNADR SGLAVLSQVDGARWLSLEGRAAVNSDIDAVRDAELRYAQRYRTPRPNPRRVVIEVQIERVLGSADLLD RA

>DM\_train2230

RRWTFVRYHYINKAYEVTMKIQIISGFDRQLTAWLRVHGRRLTNNQKKTLFFVNRRYMQTHWQNY MLWVKRKIKALGRPAAVGDYTRLGAEIGRRVDMVFFYNFLSGRKMIPPYSAYMAKLNALRPADVPVK NHGK

>DM\_train2231

MKGGIVHSDGSYPKDKFEKINGTWYYFDSSGYMLADRWRKHTDGNWYWFDNSGEMATGWKKIA DKWYYFNEEGAMKTGWVKYKDTWYYLDAKEGAMVSNAFIQSADGTGWYYLKPDGTLADRPEFTVE PDGLITVK

>DM train2232

MEAVKTFNSELYSLNDYKPPISKAKMTQITKAAIKAIKFYKHVVQSVEKFIQKCKPEYKVPGLYVIDSIVR QSRHQFGQEKDVFAPRFSNNIISTFQNLYRCPGDDKSKIVRVLNLWQKNNVFKSEIIQPLLDMAA

>DM\_train2234

>DM\_train2235

MTKLEQIQQWTAQHHASMTYLSNPKTIEYLTGFGSDPIERVLALVVFPDQDPFIFAPALEVEVIKETGW QFPVIGYLDHENPWAMIADQVKQRHVNPEHVAIEKGQLQVARMEALAAQFSAPSFDLDITSFIEHM R

>DM train2236

TVPAQLQFSAKTLDGHDFHGESLLGKPAVLWFWAPWCPTCQGEAPVVGQVAASHPEVTFVGVAGL DQVPAMQEFVNKYPVKTFTQLADTDGSVWANFGVTQQPAYAFVDPHGNVDVVRGRMSQDELTR RVTALTSR

>DM train2237

>DM\_train2238

MRDPFMEALGLKVLHLAPGEAVVAGEVRADHLNLHGTAHGGFLYALADSAFALASNTRGPAVALSC RMDYFRPLGAGARVEARAVEVNLSRRTATYRVEVVSEGKLVALFTGTVFRLGGDGDDVPAGTGNLAP REA

>DM\_train2239

>DM\_train2240

>DM\_train2241

GDADVLVKWSEDLANLPSIDTQHKRLVDYINDLYRAARRRDMDKAREVFDALKNYAVEHFGYEERLF ADYAYPEATRHKEIHRRFVETVLKWEKQLAAGDPEVVMTTLRGLVDWLVNHIMKEDKKYEAYLRERG VS

GSHMTSPFKLPDESPSWTEWRLHNDETNSNQDNPLGFKESWGFGKVVFKRYLRYDRTEASLHRVLG SWTGDSVNYAASRFFGFDQIGCTYSIRFRGVSITVSGGSRTLQHLCEMAIRSKQEMLQMAPIEVESNV SR

>DM train2244

SNAMGLFDEVVGAFLKGDAGKYQAILSWVEEQGGIQVLLEKLQSGGLGAILSTWLSNQQRNQSVSG EQLESALGTNAVSDLGQKLGVDTSTASSLLAEQLPKIIDALSPQGEVSAQANNDLLSAGMELLKGKLF  $\ensuremath{\mathtt{R}}$ 

>DM\_train2248

>DM\_train2247

>DM\_train2249

>DM train2250

>DM\_train2251

AGGGGSSSGADHISLNPDLANEDEVNSCDYWRHCAVDGFLCSCCGGTTTTCPPGSTPSPISWIGTC HNPHDGKDYLISYHDCCGKTACGRCQCNTQTRERPGYEFFLHNDVNWCMANENSTFHCTTSVLVG

>DM train2254

>DM train2255

>DM train2256

>DM train2257

>DM\_train2258

>DM\_train2261

>DM train2262

AGGRSWCLRRVGMSAGWLLLEDGCEVTVGRGFGVTYQLVSKICPLMISRNHCVLKQNPEGQWTIM DNKSLNGVWLNRARLEPLRVYSIHQGDYIQLGVPLENKENAEYEYEVTEEDWETIYPCLSPKNDQMIE K

>DM train2263

TLRVVPELYCFDINVSOSFFVDVLGFEVKYERPDEEFVYLTLDGVDVMLEGIAGKSRKWLSGDLEFPLG

>DM\_train2264

NAIMDLQTRNTRGLSTLVVRDIGELMMAGDMAVIERYVADVRGKGAVLDLRIYDAAGRPAGKKQD APDGEVQAALTSGATAEKRHKVDGRHVLSFIVPLANEVRCQSCHEQGARFNGAMLLTTSLEEGYAG ARN

>DM\_train2265

>DM\_train2266

>DM train2267

>DM\_train2268

>DM\_train2269

>DM\_train2271

>DM train2272

>DM\_train2273

>DM train2274

>DM train2275

GQSLELGTMQPSFTSVTGKGGVKVIDGSSVKFGRFDGAEPHCVGLTDLVTEQDGSSMAAGFMQWD NAFFPWTLNYDEIDMVLEGELHVRHEGETMIAKAGDVMFIPKGSSIEFGTPTSVRFLYVAWPANWQS V

>DM train2276

>DM train2277

>DM train2278

>DM train2279

>DM\_train2280

>DM train2281

HMVTLYTSPSCTSCRKARAWLEEHEIPFVERNIFSEPLSIDEIKQILRMTEDGTDEIISTRSKVFQKLNVNV ESMPLQDLYRLINEHPGLLRRPIIIDEKRLQVGYNEDEIRRFLPRKVRSFQLREAQRLAN

>DM\_train2282

>DM\_train2286

>DM\_train2285

>DM\_train2287

>DM train2288

>DM train2289

>DM\_train2291

>DM train2292

GSHMVPGOKOHYVOPTAANSGEISYADFEKVDIRVGTIVEAVPFPEARKPAIKVKIDFGPEIGIKKSSA

>DM\_train2294

>DM train2295

>DM train2296

>DM\_train2297

>DM\_train2298

>DM\_train2299

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>DM train2324

>DM train2325

>DM train2326

>DM\_train2327

>DM\_train2328

>DM\_train2329

>DM\_train2330

GSHMAKHEQILVLDPPSDLKFKGPFTDVVTTNLKLQNPSDRKVCFKVKTTAPRRYCVRPNSGVIDPGS IVTVSVMLQPFDYDPNEKSKHKFMVQTIFAPPNISDMEAVWKEAKPDELMDSKLRCVFEM

>DM\_train2331

MSHAIQIREAHFPGRAPIDAYGNGGFRFADMSHRGSIICIPSGIYGIDMTGPVPTQEDISRVLEESDQIE VLLIGTGVELLRLPEELRVLLWEKRISSDTMSTGAAVRTFNVLLAEDRAVAALLFAVE

>DM\_train2332

>DM\_train2333

>DM train2334

>DM train2335

>DM train2336

GENIVCRVICTTGQIPIRDLSADISQVLKEKRSIKKVWTFGRNPACDYHLGNISRLSNKHFQILLGEDGN LLLNDISTNGTWLNGQKVEKNSNQLLSQGDEITVGVGVESDILSLVIFINDKFKQCL

>DM train2337

>DM\_train2338

>DM train2339

QEQRMSHHYATIEVSQQLRQLLGDQLVILLRETPDGQALERSQNDFRRVLEQGRANTVDSAEQAAL

>DM\_train2340

>DM train2341

GEEEKKRTARTDYWLQPEIIVKIITKKLGEKYHKKKAIVKEVIDKYTAVVKMIDSGDKLKLDQTHLETVIPA PGKRILVLNGGYRGNEGTLESINEKTFSATIVIETGPLKGRRVEGIQYEDISKLA

>DM train2342

>DM\_train2343

>DM\_train2344

>DM\_train2345

>DM\_train2346

>DM\_train2347

>DM train2348

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>DM train2360

>DM train2361

 $\label{thm:local_continuous} MPAIFTHEGKVEGVPGNYPLTAENLFRIGLALCTLWILDKEIEEPTLSIPETNFVTLALSVGFMNAGGSV\\ NVGKGGDIKLFLQKGEIYVLEFQPLSETDIKKLESILFGRAPIPKKTGEDIGSFKC$ 

>DM train2362

>DM\_train2364

>DM train2363

MPYKNILTLISVNNDNFENYFRKIFLDVRSSGSKKTTINVFTEIQYQELVTLIREALLENIDIGYELFLWKK NEVDIFLKNLEKSEVDGLLVYCDDENKVFMSKIVDNLPTAIKRNLIKDFCRKLS

>DM\_train2365

>DM\_train2366

>DM train2367

 ${\sf MKDPLLNSLIYVSRYYGLANSPEALVNGLPLSDGKLTPFLLPRAAERAGLVAKENRAELEKISSLILPAILVLKGGDSCVLNSINMETREAEVTTLESGMVPISIPLEDLLEQYTGRYFLVKKQFR}$ 

>DM train2368

GSRESTGYLEELEKERSLLLADLDKEEKEKDWYYAQLQNLTKRIDSLPLTENFSLQTDMTRRQLEYEAR QIRVAMEEQLGTCQDMEKRAQRRIARIQQIEKDILRIRQLLQSQATEAERSSQNKH

>DM train2369

>DM train2371

>DM train2372

>DM train2373

>DM\_train2374

>DM train2375

>DM train2376

DVTPRRDAEYPPPEFLEAMKPLREICIKKTGVTEEAIIEFSDGKVHEDENLKCYMNCLFHEAKVVDDTG HVHLEKLHDALPDSMHDIALHMGKRCLYPEGENLCEKAFWLHKCWKESDPKHYFLI

>DM\_train2377

>DM\_train2378

>DM\_train2379

>DM\_train2380

>DM\_train2381

>DM train2382

>DM train2383

>DM\_train2384

GPLGSMPSEKTFKQRRSFEQRVEDVRLIREQHPTKIPVIIERYKGEKQLPVLDKTKFLVPDHVNMSELIKII RRRLQLNANQAFFLLVNGHSMVSVSTPISEVYESERDEDGFLYMVYASQETFG

>DM train2385

ESVKAMWGVVTDSQTEIVALAKVRNEDVVPIVVSGYHYTIEMNGVKVADGYENSPVTVKPASATTLK

>DM train2386

>DM train2387

>DM train2388

>DM\_train2389

>DM\_train2390

>DM\_train2391

>DM\_train2392

>DM\_train2393

>DM train2394

ALEGTEFARSEGASALASVNPLKTTVEEALSRGWSVKSGTGTEDATKKEVPLGVAADANKLGTIALKP DPADGTADITLTFTMGGAGPKNKGKIITLTRTAADGLWKCTSDQDEQFIPKGCSR

>DM train2395

AITKINDCFELLSMVTYADKLKSLIKKEFSISFEEFAVLTYISENKEKEYYLKDIINHLNYKQPQVVKAVKILS QEDYFDKKRNEHDERTVLILVNAQORKKIESLLSRVNKRITEANNEIEL

>DM\_train2398

>DM\_train2399

>DM train2400

>DM\_train2401

GSHMVGQLSEGAIAAIMQKGDTNIKPILQVINIRPITTGNSPPRYRLLMSDGLNTLSSFMLATQLNPLV EEEQLSSNCVCQIHRFIVNTLKDGRRVVILMELEVLKSAEAVGVKIGNPVPYNE

>DM\_train2402

GHMNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLLFDDGYECDVLGKDILLCDPIPLDTEVTALS EDEYFSAGVVKGHRKESGELYYSIEKEGQRKWYKRMAVILSLEQGNRLREQYGLG

>DM\_train2403

>DM\_train2404

>DM\_train2405

>DM train2406

>DM train2407

>DM train2408

>DM train2410

>DM train2409

>DM\_train2411

>DM\_train2412

>DM\_train2413

>DM train2414

GMEPITQAFAQQFSREWIDAWNAHDLDAILSHYADGFEMSSPMIVQIAGEPSGRLRGKEQVGAYW REALRMIPDLHFEWIATLAGVDSVAIHYRGAKGRLALEVFHFGPDRRVVKALAHYAG

>DM train2415

MKKKDTCEIFGYDEEKVNRIQGDLQTVDISGVSQILKAIADENRAKITYALCQDEELCVCDIANILGVTI ANASHHLRTLYKQGVVNFRKEGKLALYSLGDEHIRQIMMIALAHKKEVKVNV

>DM train2416

APVLENRRARHDYEILETYEAGIALKGTEVKSLRAGKVDFTGSFARFEDGELYLENLYIAPYEKGSYANV DPRRKRKLLLHKHELRRLLGKVEQKGLTLVPLKIYFNERGYAKVLLGLARGK

>DM train2417

MEKATKRNDEECEVQLNIKRNSKHSAWTGELFKIECPVKYCVHRPNVTWCKHNGTIWVPLEVGPQL YTSWEENRSVPVFVLHFKPIHLSDNGSYSCSTNFNSQVINSHSVTIHVRERSQNSS

>DM train2418

>DM train2419

>DM\_train2420

SLRVEETEVFKKYFKNLTDRERAVFEGGITLGALFHQFVGTPVSKYNKESLERAIEEAMKNQPCVYDIKV KIRNVGEKYVSLDGKMLDVDLKIKINKTVAHLKLEYIPEIDYPLMYVKKFEE

>DM train2421

 $MSKTIVLSVGEATRTLTEIQSTADRQIFEEKVGPLVGRLRLTASLRQNGAKTAYRVNLKLDQADVVDSG\\ LPKVRYTQVWSHDVTIVANSTEASRKSLYDLTKSLVATSQVEDLVVNLVPLGR$ 

>DM\_train2422

NGGVGVDVELITSINVENDTFIERNFTPQEIEYCSAQPSVQSSFAGTWSAKEAVFKSLGVKSLGGGAAL KDIEIVRVNKNAPAVELHGNAKKAAEEAGVTDVKVSISHDDLQAVAVAVSTKK

>DM\_train2423

>DM\_train2424

>DM\_train2425

QGQFFREIENLKEYFNASSPDVAKGGPLFSEILKNWKDESDKKIIQSQIVSFYFKLFENLKDNQVIQRSM DIIKQDMFQKFLNGSSEKLEDFKKLIQIPVDDLQIQRKAINELIKVMNDLS

>DM\_train2426

>DM\_train2427

>DM train2428

>DM train2430

DKKAYFYHSSFQILNVEYTEALNSPATHEYRTLSERIEAMITDEFRGSSLKSEFIRTHVVKLRKEGTGVVA DVVMKFRSSKRNNRKVMKTRIQSVLRRLSSSGNLEIAPSNEITSLTDQDT

>DM train2431

GMREDMKDNVVKDKSLEFAVRIVNLYKFLVNEQKEFVMSKQILRSGTSIGANIREAEQAQSRADFINK LNIALKEANETEYWLELLIRTEYITREQYESINNDSTEINKLLISIIKTTKNN

>DM train2432

MRVAIPAEDDRGIKSNVSKHFGRSRYFVFVDIEGEDVKNVEVVEVPFEEHGPGDLPNFIKDHGAKIVLT

YGIGRRAIEYFNSLGISVVTGVYGRISDVIKAFIGGKLKIDYDWKEKIEKEH

>DM train2433

MNAPDRFELFLLGEGESKLKIDPDTKAPNAVVITFEKEDHTLGNLIRAELLNDRKVLFAAYKVEHPFFAR FKLRIQTTEGYDPKDALKNACNSIINKLGALKTNFETEWNLQTLAADDAF

>DM train2435

NKPKNLDASITSIIHEIGVPAHIKGYLYLREAIAMVYHDIELLGSITKVLYPDIAKKYNTTASRVERAIRHAI EVAWSRGNLESISSLFGYTVSVSKAKPTNSEFIAMVADKLRLEHKAS

>DM train2436

MEGGKLQSTFVFEEIGRRLKDIGPEVVKKVNAVFEWHITKGGNIGAKWTIDLKSGSGKVYQGPAKGAA DTTIILSDEDFMEVVLGKLDPQKAFFSGRLKARGNIMLSQKLQMILKDYAKL

>DM\_train2437

NPLASLTTDKNDLYINWLKSLSFFQTNSSCAEALVKVIPHYHNKLIDFSQVLQLVFSASEKFPIQENQPL PEQLMFLSNLEKQTPFAKAVGSSIYKLVTGKNLSLDFASQILKEASILEH

>DM\_train2438

SSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNKASNDMYHSRACQVVRARKQIVAGVNYFLD VELCRTTCTKTQPNLDNCPFHDQPHLKRKAFCSFQIYAVPWQGTMTLSKSTCQDA

>DM\_train2439

MKGMSKMPQFNLRWPGGGPQFNLRWPREVLDLVRKVAEENGRSVNSEIYQRVMESFKKEGRIGGT GGSGGGREVLDLVRKVAEENGRSVNSEIYQRVMESFKKEGRIGAHHHHHHHKNQHE

>DM\_train2440

MVDIVKRRDWEKKEKKKIAIERIDTLFTLAERVARYSPDLAKRYVELALEIQKKAKVKIPRKWKRRYCKRC HTFLIPGVNARVRLRTKRMPHVVITCLECGYIMRYPYLREVKQKRKKAT

>DM\_train2441

 ${\tt MQAYSNPGYSSFPSPTGLEPSCKSCGAHFANTARKQTCLDCKKNFCMTCSSQVGNGPRLCLLCQRFRATAFQREELMKMKVKDLRDYLSLHDISTEMCREKEELVLLVLGQQPVISQEDR}$ 

>DM train2442

MMRKLKTLPPTLRDKNRYIAFEIISDGDFTKDEVKELIWKSSLEVLGETGTAIVKPWLIKFDPNTKTGIVRS DREYVEYLRFALMLVSEFNGKRLIIRTLGVSGTIKRLKRKFLAKYGWK

>DM train2443

SNAMDTQTLNSDLRVFMHHIYEFEKGVRSMVLATLANDDIPYAEERLRSRQIPYFAQPTPNTERTNLF FGCKECMEAIRLFVSGRSLNSLTPEEDFIIGAMLGYDICRQCERYCRRKSNS

>DM\_train2444

GHMVRKSIDRSTAAEITRGIGNVFADLGMPDAEERQTKLRLAYALNAVIDRARLSQAAAAARLGINQ PKVSALRNYKLEGFSVERLMTLLNALDQDVEIVIRKKPRSRAAARISVVAAGS

>DM\_train2449

MEEKVGNLKPNMESVNVTVRVLEASEARQIQTKNGVRTISEAIVGDETGRVKLTLWGKHAGSIKEGQ VVKIENAWTTAFKGQVQLNAGSKTKIAEASEDGFPESSQIPENTPTAPQQMR

>DM train2450

EDPFGPGCEEAGCPEGSACNIITDRCTCSGVRCRVHCPHGFQRSRYGCEFCKCRLEPMKATCDISECP EGMMCSRLTNKCDCKIDINCRKTCPNGLKRDKLGCEYCECRPKRKLIPRLS

>DM\_train2452

SKQPDKQRKSQRRAPLHERHKQVRATLSADLREEYGQRNVRVNAGDTVEVLRGDFAGEEGEVINVD LDKAVIHVEDVTLEKTDGEEVPRPLDTSNVRVTDLDLEDEKREARLESEDDSA

>DM train2453

APLAVNDGDMRLADGGATNQGRVEIFYRGQWGTVCDNLWDLTDASVVCRALGFENATQALGRA AFGQGSGPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTL

>DM\_train2454

RDVVSFEQPEFSVSRGDQVARIPVIRRVLDGGKSQVSYRTQDGTAQGNRDYIPVEGELLFQPGEAWK ELQVKLLELQEVDSLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPDE

>DM train2455

PMNIKGLFEVAVKVKNLEKSSQFYTEILGFEAGLLDSARRWNFLWVSGRAGMVVLQEEKENWQQQH FSFRVEKSEIEPLKKALESKGVSVHGPVNQEWMQAVSLYFADPNGHALEFTAL

>DM\_train2456

MTDYDKLSNLATTFEFPDLTVEIKGPDVVGVNKLAEYEVHVKNLGGIGVPSTKVRVYINGTLYKNWTV SLGPKEEKVLTFNWTPTQEGMYRINATVDEENTVVELNENNNVATFDVSVV

>DM train2457

MADRIELRGLTVHGRHGVYDHERVAGQRFVIDVTVWIDLAEAANSDDLADTYDYVRLASRAAEIVAG PPRKLIETVGAEIADHVMDDQRVHAVEVAVHKPQAPIPQTFDDVAVVIRRSR

>DM train2458

LRIPNIATYTGTIQGKGEVCIIGNKEGKTRGGELYAVLHSTNVNADMTLILLRNVGGNGWGEIKRNDID KPLKYEDYYTSGLSWIWKIKNNSSETSNYSLDATVHDDKEDSDVLTKCPV

>DM train2459

MRRVEKVIIVEGRSDKQKVAAVLNEPVVIVCTNGTISDARLEELADELEGYDVYLLADADEAGEKLRRQ FRRMFPEAEHLYIDRAYREVAAAPIWHLAQVLLRARFDVRIESLMRGRGE

>DM train2460

QGHMAVRRVVANIATPEPARAQAFYGDILGMPVAMDHGWIVTHASPLEAHAQVSFAREGGSGTD VPDLSIEVDNFDEVHARILKAGLPIEYGPVTEAWGVQRLFLRDPFGKLINILSHA

>DM train2461

SMSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVDLPYPLNNFSVAKCQLMKTER PKPNTFIIRCLQWTTVIERTFHVDTPEEREEWTEAIQAVADRLQRQEEERMN

>DM\_train2462

MDVFLMIRRHKTTIFTDAKESSTVFELKRIVEGILKRPPDEQRLYKDDQLLDDGKTLGECGFTSQTARPQ APATVGLAFRADDTFEALCIEPFSSPPELPDVMKPQDSGSSANEQAVQ

>DM\_train2463

MSLLNKPKSEMTPEELQKREEEEFNTGPLSVLTQSVKNNTQVLINCRNNKKLLGRVKAFDRHCNMVL ENVKEMWTEVPKSGKGKKKSKPVNKDRYISKMFLRGDSVIVVLRNPLIAGK

>DM\_train2464

 $MRHLKSGRKLNRHSSHRLALYRNQAKSLLTHGRITTTVPKAKELRGFVDHLIHLAKRGDLHARRLVLR\\ DLQDVKLVRKLFDEIAPRYRDRQGGYTRVLKLAERRRGDGAPLALVELVE$ 

>DM train2465

MTKEPRNLSEWIKELKKASREAVILVEGKNDKKALSKFSIKNVIDLSGKRYADVVDMLEGKWEKVILLFD LDTHGERINQKMKELLSSQGFLVDENFRNFLKKWNIIHIEEINGGKNS

>DM train2466

MPTRVNDGVDADEVTFVNRFTVHGAPAEFESVFARTAAFFARQPGFVRHTLLRERDKDNSYVNIAV WTDHDAFRRALAQPGFLPHATALRALSTSEHGLFTARQTLPEGGDTTGSGHR

>DM train2467

EGSCMSITINPSRPSVNNIGQVDIDSVILGRPGAIGSWELNNFITIGLNRVNADTVRVNIRNTGRTNRLI ITQWDNTVTRGDVYELFGDYALIQGRGSFCLNIRSDTGRENWRMQLEN

>DM train2468

MEAVVVEREAKGMKEIAIQEKDLTLQWRGNTGKLVKVRLKNTRAMEMWYNKQITEENIQEITTLNIIK NGKSLALEVYPEKSIYVKPNLGRINVPVFFIKTPINRGVFEEIFGETLKA

>DM train2469

MRGSGSSTVDELTAAFTGGAATGEGGLTLTAPEIAENGNTVPIEVKAPGAVAIMLLAAGNPEPAVATF NFGPAAADQRAATRIRLAQTQDVIALAKMADGSVVKAQTTVKVTIGGCGG

>DM train2471

MAFQLEMVTRETVVIRLFGELDHHAVEQIRAKISTAIFQGAVTTIIWNFERLSFMDSSGVGLVLGRMRE LEAVAGRTILLNPSPTMRKVFQFSGLGPWMMDATEEEAIDRVRGIVNG

>DM train2472

LMGDDKVKKEVGRASWKYFHTLLARFPDEPTPEEREKLHTFIGLYAELYPCGECSYHFVKLIEKYPVQTS SRTAAAMWGCHIHNKVNEYLKKDIYDCATILEDYDCGCSDSDGKRVS

>DM train2473

MSLSPPGVRLFYDPRGHHAGAINELCWGLEEQGVPCQTITYDGGGDAAALGALAARSSPLRVGIGLS ASGEIALTHAQLPADAPLATGHVTDSDDQLRTLGANAGQLVKVLPLSERN

>DM\_train2474

MSAMNARQGILSLALKDKPALYSAYMPFVKGGGIFVPTPKRYMLGDEVFLLLTLPDSSERLPVAGKVI WTTPAGAQGNRAAGIGVQFPDGPEGEAVRNKIETLLAGLTTSDKPTHTM

>DM\_train2475

MNSDPTRERILHGLITLYILKELVKRPMHGYELQKSMFETTGQALPQGSIYILLKTMKERGFVISESSVNE KGQQLTVYHITDAGKKFLCDHSQALQLARKIIDDLLSTVDIIENRN

>DM\_train2476

HCDLPCGVYDPAQARIEAESVKAVQEKMAGNDDPHFQTRATVIKEQRAELAKHHVSVLWSDYFKPP HFEKYPELHQLVNDTLKAMSAAKGSKDPATGQKALDYIAQIDKIFWETKKA

>DM\_train2477

GSSEEESFFVQVHDVSPEQPRTVIKAPRVSTAQDVIQQTLCKAKYSLSILSNPNPSDYVLLEEVVKDTT NKKTTTPKSSQRVLLDQECVFQAQSKWKGAGKFILKLKEQVQASREDK

>DM train2478

MDRTHERVLQAMAENLGEGLPRAIPLLAEKAPGLLLEHGRSWTYAMPEKGALDEKTRTLILLGIALATG SEACVKAMAHRAKRLGLSKEALLETLKIARQAQANAVLGHAAPLLEVL

>DM train2479

SNAMSANDKLTILWTTDNKDTVFNMLAMYALNSKNRGWWKHINIILWGASVKLVANDTQVQTEIL EMLQSGITIEACQDCCENFGVASIITNLGITVRYMGIPLTEYLKNGEKILSI

>DM train2480

QGHMVSAEGRNRKAVLCQRCGSRVLQPGTALFSRRQLFLPSMRKKPALSDGSNPDGDLLQEHWLV EDMFIFENVGFTKDVGNIKFLVCADCEIGPIGWHCLDDKNSFYVALERVSHE

>DM train2481

MAVNFYDVAYDLENALRGSEEFTRLKNLYDEVNADESAKRMFENFRDVQLRLQQKQMAGEEITQEE VTQAQKTVALVQQHEKISQLMEAEQRMSMLIGELNKIIMKPLEELYGSVEG

>DM\_train2482

MPKNKGKGGKNRRRGKNDSEGDKRELVFKEEGQEYGQVQRMLGNGRLDAYCFDGQKRLCHIRGK MRKKVWVNPGDIVLVSLRDFQDSKGDIILKYTPDEARALKSKGEIPETTKINE

>DM train2483

MQNIPPQVQAMLGQLESYQQQLQLVVQQKQKVQLELTEAKKALDEIESLPDDAVVYKTVGTLIVKTT

KDKAVAELKEKIETLEVRLNALERQEKKLNEKLKELTAQIQSALRPPTAG

>DM\_train2484

SLTFYPAWLTVSEGANATFTCSLSNWSEDLMLNWNRLSPSNQTEKQAAFSNGLSQPVQDARFQIIQ LPNRHDFHMNILDTRRNDSGIYLCGAISLHPKLKIEESPGAELVVTERILE

>DM train2485

ARINGPDECGRVIKDTSGSISNTDRQKNLCTWTILMKPDQKVRMAIPYLNLACGKEYVEVFDGLLSGP SYGKLCAGAAIVFLSTANTMTIKYNRISGNSSSPFLIYFYGSSPGSEY

>DM train2487

MATQRAHRAETPAHPNRLWIWEKHVYLDEFRRSWLPVVIKSNEKFQVILRQEDVTLGEAMSPSQLVP YELPLMWQLYPKDRYRSADSMYWQILYHIKFRDVEDMLLELIDSESNDE

>DM\_train2488

MSEAKELIKKMCDLQNSNEEIQKEMAGWSGVVQYKLDGEEFYVEYKSDGTCEFKEGVHSSPTFTVVA PPDFWLAVLKGOEDPVSGFMMGKYRIEGNIMEAORLAGVIKKFOGKFEL

>DM\_train2489

NNTPVTNKLKAYGDANFNFTNNSIADAEKQVQEAYKGLLNLNEKNASDKLLVEDNTAATVGNLRKL GWVLSSKNGTRNEKSQQVKHADEVLFEGKGGVQVTSTSENGKHTITFALA

>DM\_train2490

MAEIPKEMLRAQTNVILLNVLKQGDNYVYGIIKQVKEASNGEMELNEATLYTIFKRLEKDGIISSYWGD ESOGGRRKYYRLTEIGHENMRLAFESWSRVDKIIENLEANKKSEAIK

>DM\_train2491

MNDKKIELLTTYLSLYIDHHTVLADMQNATGKYVVLDVRNAPAQVKKDQIKGAIAMPAKDLATRIGE LDPAKTYVVYDWTGGTTLGKTALLVLLSAGFEAYELAGALEGWKGMQLP

>DM\_train2492

MGSDKIHHHHHHMFYEIRTYRLKNGAIPAYLKVVEDEGIEIQKSHLGELVGYFFSEIGPINEIVHIWAFSS LDDRAERRARLMADPRWLSFLPKIRDLIEVAENKIMKPARFSPLM

GHMLYINSFLDRMGEIIRGEKSVEEADKLLDQKNIFEMFRSDCEEILNLYKSGKAEKEEVQRNFYLLKTY VVSOLSIHFERLKEFAESKGFKIEKKLDPEVINEIALYIDRVEKEV

>DM train2494

GSPGIRMSLKSDEVFAKIAKRLESIDPANRQVEHVYKFRITQGGKVVKNWVMDLKNVKLVESDDAAE ATLTMEDDIMFAIGTGALPAKEAMAODKMEVDGQVELIFLLEPFIASLK

>DM\_train2495

GMQQSEHFSFGEQTEIEDIGGGLKRQMLGFNHELMAVKIWFDKGAEGYVHAHRHSQVSYVVEGEF HVNVDGVIKVLTAGDSFFVPPHVDHGAVCPTGGILIDTFSPAREDFVEGLS

>DM\_train2496

MVERLLEIIERSLRKCPWLEKQSIETLLEALASEIEEVAEAVKKNDLANLEEEIGDMIYDALLVAAVAQRD YGIDLESAIQKVVEKISHRKPWLFWEEKISLEEAEKIWKERKKKI

>DM train2497

MERQPTTDRMIQEYVPGKQVTLAHLIANPGKDLFKKLGLQDAVSAIGILTITPSEASIIACDIATKSGAV EIGFLDRFTGAVVLTGDVSAVEYALKQVTRTLGEMMQFTTCSITRT

>DM\_train2498

MDAENRVIINVGGIRHETYKATLKKIPATRLSRLTEGMLNYDPVLNEYFFDRHPGVFAQIINYYRSGKLH YPTDVCGPLFEEELEFWGLDSNOVEPCCWMTYTAHRDTOETLAVL

>DM train2499

QSIYIELKNTGSLNQVFSSTQNSSIVIKFGAVWCKPCNKIKEYFKNQLNYYYVTLVDIDVDIHPKLNDQ HNIKALPTFEFYFNLNNEWVLVHTVEGANQNDIEKAFQKYCLEKAK

>DM\_train2500

RTLPGEGTQVHPRAPLLQILKVAGAQEEVFTVKEVMHYLGQYIMMKQLYDKQRQHIVHCHDDPLGE LLEVGSFSVKNPSPLYEMLKRNLVILNNSDAAKNLSVGKDSNESPSEDP

>DM train2501

NVCQPTRFISRHNIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKGQVL SVMFRFRSKNQEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQE

>DM\_train2502

MVTKTITEQRAEVRIFAGNDPAHTATGSSGISSPTPALTPLMLDEATGKLVVWDGQKAGSAVGILVLP LEGTETALTYYKSGTFATEAIHWPESVDEHKKANAFAGSALSHAALP

>DM train2503

SNAMSYINNIEHAKVLDLTQEVMIEQDQMLSRTLVQRQDLGITVFSLDKGQEIGRHSSPGDAMVTILS GLAEITIDQETYRVAEGQTIVMPAGIPHALYAVEAFQMLLVVVKPEA

>DM train2505

PKTQRGIYHNLKESEYVASNTDVTFFFSSELYLNKFLDGYQEYRKKFNKKIERVAVTPWNMDMLADITF YSEVEKRGFHAWLKGDNATWREVHVYALRIMTKPNTLDWSRIQKPR

>DM train2506

MTLIYKILSRAEWDAAKAQGRFEGSAVDLADGFIHLSAGEQAQETAAKWFRGQANLVLLAVEAEPLG EDLKWEASRGGARFPHLYRPLLVSEVTREADLDLDADGVPQLGDHLAL

>DM train2507

MKYKLNVLLAEIALIGTGNHYHEEANCIAEWLHLKGEEEAVQLIRLSSLMNRGDYASALQQGNKLAYP DLEPWLALCEYRLGLGSALESRLNRLARSODPRIOTFVNGMREOLKT

>DM\_train2508

ETGSKGQTAGELYQRWERYRRECQETLAAAEPPSGLACNGSFDMYVCWDYAAPNATARASCPWYL PWHHHVAAGFVLRQCGSDGQWGLWRDHTQCENPEKNEAFLDQRLILERLQ

>DM\_train2509

MATATTIRRKLRTRRKVRTTTAASGRLRLSVYRSSKHIYAQIIDDSRGQTLAAASSAALKSGNKTDTAA AVGKALAAAAAEKGIKOVVFDRGSYKYHGRVKALADAAREGGLDF

>DM\_train2510

GMKTQITTRDLVLEFIHALNTENFPAAKKRLNENFTFNGPMGHREGSERYMNDMEKMKFKYVVHKM FEEGNDVCLIYDINMNGKTIAASGLYHLEKGEITSLHVYFDPRPLFEE

>DM\_train2511

MNNKHATSAVHEIIREICRLVDSGHSMTRDQFHELSEQERFIAFLAEKYSSTIKLYYLADSSPLFEKDTSS FIENAFGRHANTVVMEDFGLKSNALLLAINICLAILREINGEV

>DM train2512

HKGTLYVVATPLGNLDDMTFRAVNTLRNAGAIACEDTRRTSILLKHFGIEGKRLVSYHSFNEERAVRQ VIELLEEGSDVALVTDAGTPAISDPGYTMASAAHAAGLPVVPVPGA

>DM train2513

SNAMGYMFIETKTFTVKEGTSNIVVERFTGEGIIEKFEGFIDLSVLVKKVRRGDEEVVVMIRWESEEAWK NWETSEEHLAGHRAGRGKPKPDHIINVDHAVYYVKSSKAAYQQS

>DM train2514

MGSSSSGLVPAGSHMRLTPHEQERLLLSYAAELARRRRARGLRLNHPEAIAVIADHILEGARDGRTVA ELMASGREVLGRDDVMEGVPEMLAEVQVEATFPDGTKLVTVHQPIA

>DM train2515

GMIRLLYLLVKPAGMSDETFRAECLRHYEMSHDVPGLHKYEVRLVAEQPTDTHVPFFDIGHVDAIGEC WFKDDAAYATYMASDIRKAWFEHGKTFIGQLKPFRTAPVAGDEPAS

>DM train2516

MKNLSFPLLFLFFLVPELLGSSMPLCPIDEAIDKKIKQDFNSLFPNAIKNIGLNCWTVSSRGKLASCPEGT AVLSCSCGSACGSWDIREEKVCHCQCARIDWTAARCCKLQVAS

>DM train2517

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESGDASIHDTVENLIILAN NSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS

>DM\_train2518

GAMDPEFTLSSEKKAKKVRFYRNGDRYFKGIVYAISPDRFRSFEALLADLTRTLSDNVNLPQGVRTIYTI DGLKKISSLDQLVEGESYVCGSIEPFKKLEYTKNVNPNWSVNV

>DM train2519

DAPSALYAPSALVLTVGKGVSATTAAPERAVTLTCAPGPSGTHPAAGSACADLAAVGGDLNALTRGE DVMCPMVYDPVLLTVDGVWQGKRVSYERVFSNECEMNAHGSSVFAF

>DM\_train2520

TCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNA DKQLSFEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP

>DM\_train2521

MVDLEQEFALGGRCLAFHGPLMYEAKILKIWDPSSKMYTSIPNDKPGGSSQATKEIKPQKLGEDESIPE EIINGKCFFIHYQGWKSSWDEWVGYDRIRAYNEENIAMKKRLAN

>DM\_train2522

ATAFVPALVASGLPNEKFCFEGFLPQKKGRMTKLKSLVDEHRTMVFYESPHRLLKTLTQFAEYFGPERQ VSVSREISKIHEETVRGTLSELIEHFTATDPRGEIVIVLAGIDD

>DM\_train2523

NSPQEEVELKKLKHLEKSVEKIADQLEELNKELTGIQQGFLPKDLQAEALCKLDRRVKATIEQFMKILEEI DTLILPENFKDSRLKRKGLVKKVQAFLAECDTVEQNICQETE

>DM\_train2524

NGLITKIWGTAGWTFNHAVTFGYPLNPTSDDKRRYKNYFISLGDVLPCRLCRESYKKFITTGKTALTNE VLRNRHTLTKWFYDVHNAVNNKLEVDYGLSYEDVVNKYESFRAK

>DM train2525

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>DM train2526

GSHMGQNDLVKTLRMNYLFDFYQSLLTNKQRNYLELFYLEDYSLSEIADTFNVSRQAVYDNIRRTGDL VEDYEKKLELYQKFEQRREIYDEMKQHLSNPEQIQRYIQQLEDLE

>DM train2527

LETPGQYLVYNGDLVEYEADHMAQLQRVHGFLMNDCLLVATWLPQRRGMYRYNALYPLDRLAVV NVKDNPPMKDMFKLLMFPESRIFQAENAKIKREWLEVLEETKRALSDKR

>DM\_train2529

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>DM train2530

GMARRDISGAVDFAYLEGFAAGDFAVVDEVLALFREOAALWAPMLDPTHPGWKDAVHTVKGAAR

GVGAFNLGEVCERCEAGQESLEGVRTALDAALLDIAAYAHEQALRSLKG

>DM train2531

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>DM train2532

EDKYTDKYDNINLDEILANKRLLVAYVNCVMERGKCSPEGKELKEHLQDAIENGCKKCTENQEKGAYR VIEHLIKNEIEIWRELTAKYDPTGNWRKKYEDRAKAAGIVIPEE

>DM train2533

MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEVNFREIPSH VLSKVCMYFTYKVRYTNSSTEIPEFPIAPEIALELLMAANFLDC

>DM\_train2534

MHFSIPETESRSGDSGSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLPAFPPKKLFSLTP AEVEQRREQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQV

>DM\_train2535

WSATNEEDDLSVEAEIAHQIAESFSKKYKFPSRSSGIFLYNFEQLKMNLDDIVKEAKNVPGVTRLAHDG SKIPLRCVLGWVALANSKKFQLLVEADKLSKIMQDDLNRYTSC

>DM\_train2536

LKSESAEKTREVLWQQYYASNPPDHAVLEVLATPVREALLARFGQHQGSVVPAIDLPELRSVLQQFDS FGKRWEAILLQVLEGIKPNESQVGLPYLSELINKELMILLPSNS

>DM\_train2538

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>DM\_train2539

GMDKLVKYQELVKKLLTNYASDDVSDQDVEVQLILDTERNHYQWMNVGWQGLNRIYRCVIHFDIK DGKIWLQQNLTDRNPAEELVMMGVPREDIVLGLQAPYKRQYTDYGVA

MDTSLPSAILNNMVTATLILDDGLAIRYANPAAELLFSQSAKRIVEQSLSQLIQHASLDLALLTQPLQSG QSITDSDVTFVVDGRPLMLEVTVSPITWQRQLMLLVEMRKID

>DM train2541

MAVRIRLAKFGRKHHPIYRIVVMDAKSPREGKYIDILGTYDPKRKVLINVYPEKVKEWVLKGVELSHRAK AILWNHGILKEVVPEGYEMKRVGDYYVFEKRESKKSKGGEAA

>DM\_train2542

MGKATTEEQKLIEDVNASFRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDEV YNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA

>DM\_train2543

ATDAASLVGELQALDAEYQNLANQEEARFNEERAQADAARQALAQNEQVYNELSQRAQRLQAEA NTRFYKSQYQEAASKYEDALKKLEAEMEQQKAVISDFEKIQALRAGN

>DM train2544

MAHHHHHHVDDDDKMSLLDAHIPQLIASHTAFAAKAGLMRHTIGQAEQQAMSAQAFHQGESAA AFQGAHARFVAAAAKVNTLLDIAQANLGEAAGTYVAADAAAASSYTGF

>DM\_train2545

MDGASEIELVFRPHPTLMEKDDSAQTRYIKTSGNATVDHLSKYLAVRLALEELRSKGESNQMNLDTAS EKQYTIYIATASGQFTVLNGSFSLELVSEKYWKVNKPMELYYA

>DM train2546

MKMQTYYYVLASRRFLLQEEPIEEVLKERTRHYHEQEKEIDFWLVPQPAFLEAPEFADIKAKCPQPAAA IISTNSQFITWLKLRLEYVVTGEFSAPSETIPNPLASLATAS

>DM\_train2547

MDFREVIEQRYHQLLSRYIAELTKTSLYQAQKFSRKTIEHQIPPEEIISIHRKVLKELYPSLPEDVFHSLDFLI EVMIGYGMAYQEHQTLRGIQQEIKSEIEIAANVQQTL

>DM\_train2548

SNAMATGGLAIIQSMKHKLPPSERKLADYILAHPHKAIESTVNEISALANSSDAAVIRLCKSLGLKGFQD LKMRVAGDLAKPTFQGYRDIVPHEPLPSISEKTAGNAIQAI

>DM\_train2549

GQDCPDSSEEVVGVSGKPVQLRPSNIQTKDVSVQWKKTEQGSHRKIEILNWYNDGPSWSNVSFSDI YGFDYGDFALSIKSAKLQDSGHYLLEITNTGGKVCNKNFQLLILD

>DM train2550

SFEKICSLDDIWVGEMETFETSDGTEVLIVNSEEHGVKAYQAMCPHQEILLSEGSYEGGVITCRAHLWT FNDGTGHGINPDDAALAEYPVEVKGDDIYVSTKGILPNKAHS

>DM train2551

GSSGSSGPGSLSGTEQAEMKMAVISEHLGLSWAELARELQFSVEDINRIRVENPNSLLEQSVALLNLW VIREGQNANMENLYTALQSIDRGEIVNMLEGSGRQSRNLKPDR

>DM train2552

MSIAVGMIETLGFPAVVEAADSMVKAARVTLVGYEKIGSGRVTVIVRGDVSEVQASVTAGIENIRRVN GGEVLSNHIIARPHENLEYVLPIRYTEAVEQFREIVNPSIIRR

>DM train2553

MSMEDPFFVVKGEVQKAVNTAQGLFQRWTELLQGPSAATREEIDWTTNELRNNLRSIEWDLEDLDE TISIVEANPRKFNLDATELSIRKAFITSTRQIVRDMKDQMSASS

>DM train2554

MERGEIWLVSLDPTAGHEQQGTRPVLIVTPAAFNRVTRLPVVVPVTSGGNFARTAGFAVSLDGVGIR TTGVVRCDQPRTIDMKARGGKRLERVPETIMNEVLGRLSTILT

>DM\_train2556

CILRFIACNGQTRAVQSRGDYQKTLAIALKKFSLEDASKFIVCVSQSSRIKLITEEEFKQICFNSSSPERDR LIIVPKEKPCPSFEDLRRSWEIELAOPAALSSQSSLSP

>DM\_train2557

MSENANDIVTLRAQGGSDAPSDQPLNQVITNSTRQFNIELIRVQPRGEMMQVWIQPLPFSQLVSWI AYLQERQGVSVDAIDIDRGKVNGVVEVKRLQLKRGGLEHHHHHH

>DM\_train2558

GGGGGMLNRVFLEGEIESSCWSVKKTGFLVTIKQMRFFGERLFTDYYVIYANGQLAYELEKHTKKYKT ISIEGILRTYLERKSEIWKTTIEIVKIFNPKNEIVIDYKEI

>DM train2559

GMAEPKFTSFTTADFINDVDMELFIDAVEKTAPVWVKEMKSRGLLKFSMNRVWNKGEVFRVVMTYE YKDRASFEANIAYLEDTFGKNPVFLQLVTTAKFTTSRCLVVMEV

>DM train2560

AGRPAVSASSRWLEGIRKWYYNAAGFNKYGLMRDDTIYENDDVKEAIRRLPENLYDDRMFRIKRALD LNMRQQILPKEQWTKYEEDVPYLEPYLKEVIRERKEREEWDK

>DM train2561

SHGSHETDEEFDARWVTYFNKPDIDAWELRKGMNTLVGYDLVPEPKIIDAALRACRRLNDFASAVRIL EVVKDKAGPHKEIYPYVIQELRPTLNELGISTPEELGLDKV

>DM train2562

GSHMTTKKASDSAFWLEVEGNSMTAPTGSKPSFPDGMLILVDPEQAVEPGDFCIARLGGDEFTFKKLI RDSGQVFLQPLNPQYPMIPCNESCSVVGKVIASQWPEETFG

>DM train2563

DLHEILHEAVPLDANEREILELKEDAFAQRRREIETRLRAANGKLADAIAKNPAWSPEVEAATQEVERA AGDLQRATLVHVFEMRAGLKPEHRPAYDRVLIDALRRGSQ

>DM train2564

MKTLMVFDPAMAASTGVCGTDVDQALVDFSTDVQWLKQSGVQIERFNLAQQPMSFVQNEKVKAF IEASGAEGLPLLLLDGETVMAGRYPKRAELARWFGIPLDKVGLAP

>DM\_train2565

MAYRALMVLRMDPADAEHVAAAFAEHDTTELPLEIGVRRRVLFRFHDLYMHLIEADDDIMERLYQAR SHPLFQEVNERVGQYLTPYAQDWEELKDSKAEVFYSWTAPDS

>DM train2566

PSSPSIDQVEPYSSTAQVQFDEPEATGGVPILKYKAEWRAVGEEVWHSKWYDAKEASMEGIVTIVGLK PETTYAVRLAALNGKGLGEISAASEFKTQPVREPSAPKLEG

>DM\_train2567

MVNFKDKSMPTAIEKALDFIGGMNTSASVPHSMDESTAKGILKYLHDLGVPVSPEVVVARGEQEGW NPEFTKKVAGWAEKVASGNRILIKNPEYFSTYMQEQLKELVLE

>DM\_train2568

GSDYIIKEKTVLLQKKDSEGFGFVLRGAKAQTPIEEFTPTPAFPALQYLESVDEGGVAWRAGLRMGDFLI EVNGQNVVKVGHRQVVNMIRQGGNTLMVKVVMVTRHPDM

>DM\_train2569

KAINNIVASFSSVNDAITQTAEAIHTVTIALNKIQDVVNQQGSALNHLTSQLRHNFQSGGRGSGRGG NLTYLNLSSELKQLEAKTASLFQTTVELQGLIDQINSTYVDL

>DM\_train2570

NNEIMPGKMKVKATKGEGDGGITSEGNALYNNEGGRAFMYAYVTTKPGMKYVKWEHDSGVVTVEL EPPCRFVIDTPTGPQIKYLYFVKNLNNLRRGAVLGYIGATVRLQ

>DM\_train2571

MTDLPAGDRLTGIPSHILNSSPSDRQINQLAQRLGPEWEPMVLSLGLSQTDIYRCKANHPHNVQSQ VVEAFIRWRQRFGKQATFQSLHNGLRAVEVDPSLLLHMLEELE

>DM\_train2572

MEEAKGPVKHVLLASFKDGVSPEKIEELIKGYANLVNLIEPMKAFHWGKDVSIENLHQGYTHIFESTFES KEAVAEYIAHPAHVEFATIFLGSLDKVLVIDYKPTSVSL

>DM train2573

SMFNNELMADVHFVVGPPGATRTVPAHKYVLAVGSSVFYAMFYGDLAEVKSEIHIPDVEPAAFLILLK YMYSDEIDLEADTVLATLYAAKKYIVPALAKACVNFLETSL

>DM train2574

MKWEMGLQEEYIELIKAGKKKIEGRLYDEKRRQIKPGDIIIFEGGKLKVKVKGIRVYSSFKEMLEKEGIENV LPGVKSIEEGVKVYRQFYDEEREKKYGVVAIEIEPIE

>DM\_train2575

HMSNPLGELVKALEKLSFKPSDVRIYSLLLERGGMRVSEIARELDLSARFVRDRLKVLLKRGFVRREIVEK GWVGYIYSAEKPEKVLKEFKSSILGEIERIEKMFTDGS

>DM train2576

MAEESFYGVTLTAESDSVTWDVDEDYARGOKLVIKOILLGAEAKENEFNVVEVNTPKDSVOIPIAVLK

AGETRAVNPDVEFYESKVTFKLIKGSGPVYIHGHNIKDDV

>DM\_train2577

MASMSNGTPDIIVNAQINSEDENVLDFIIEDEYYLKKRGVGAHIIKVASSPQLRLLYKNAYSTVSCGNY GVLCNLVQNGEYDLNAIMFNCAEIKLNKGQMLFQTKIWR

>DM train2578

MGPMPKLADRKLCADQECSHPISMAVALQDYMAPDCRFLTIHRGQVVYVFSKLKGRGRLFWGGSV QGDYYGDLAARLGYFPSSIVREDOTLKPGKVDVKTDKWDFYCQ

>DM train2579

MEITSDMEEDKDLMLKLLDKNGFVLKKVEIYRSNYLAILEKRTNGIRNFEINNNGNMRIFGYKMMEHHI OKFTDIGMSCKIAKNGNVYLDIKRSAENIEAVITVASEL

>DM\_train2581

DDPIGLFVMRPQDGEVTVGGSITFSARVAGASLLKPPVVKWFKGKWVDLSSKVGQHLQLHDSYDRA SKVYLFELHITDAOPAFTGSYRCEVSTKDKFDCSNFNLTVHE

>DM\_train2582

MLRYGDTEICIDPSESVLHLLGKKYTMLIISVLGNGSTRQNFNDIRSSIPGISSTILSRRIKDLIDSGLVERR SGQITTYALTEKGMNVRNSLMPLLQYISVLDRNGD

>DM\_train2584

MSSAQFDHVTVIKKSNVYFGGLCISHTVQFEDGTKKTLGVILPTEQPLTFETHVPERMEIISGECRVKIA DSTESELFRAGQSFYVPGNSLFKIETDEVLDYVCHLEG

>DM\_train2585

MLTVIAEIRTRPGQHHRQAVLDQFAKIVPTVLKEEGCHGYAPMVDCAAGVSFQSMAPDSIVMIEQW ESIAHLEAHLQTPHMKAYSEAVKGDVLEMNIRILQPGISGRV

>DM\_train2586

MSTSADYKINQQQIVCVASFLSKEGKTEALIAALASLIPDTRREAGCIRYELNVSRDEPRRVTFVEKFVDI AAFDEHCAKDAIQHYFHQVMPELVESFHVETYHQVIA

MHRTTRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETSKYCPICDVQVHKTRPLLNIRSD KTLQDIVYKLVPGLFKNEMKRRRDFYAAHPSADAAN

>DM train2588

MLAKNKGKIPGLKIDQKIRGQMPERGWTEDDIKNTVSNGATGTSFDKRSPKKTPPDYLGRNDPATVY GSPGKYVVVNDRTGEVTQISDKTDPGWVDDSRIQWGNKNDQ

>DM\_train2589

RYCKRTIPPGYKVDQVFGPRTKGKEGNFGDDKMNEEGIKDGRVTAMLNLVPSSHACLFGSRVTPKLQ PDGLHLKFEFTTVVPRDDPQFDNYVKICDQCVDGVGTRPKD

>DM\_train2590

ADDAKPRVKVPSSAKAGETVTVKALISHKMESGQRKDADGKLIPRSIINRFTCELNGVNVVDVAIDPA VSTNPYFEFDAKVDAAGEFKFTWYDDDGSVYEDVKPIAVA

>DM\_train2591

AQQSPYSAAMAEQRHQEWLRFVDLLKNAYQNDLHLPLLNLMLTPDEREALGTRVRIVEELLRGEMS QRELKNELGAGIATITRGSNSLKAAPVELRQWLEEVLLKSD

>DM\_train2592

YEVPKAKIDVFYPKGFEVSIPDEEGITLFAFHGKLNEEMEGLEAGTWARDIVKAKNGRWTFRDRITALKP GDTLYYWTYVIYNGLGYREDDGSFVVNGYSGNNASPH

>DM train2593

GLFDFLKRKEVKEEEKIEILSKKPAGKVVVEEVVNIMGKDVIIGTVESGMIGVGFKVKGPSGIGGIVRIERN REKVEFAIAGDRIGISIEGKIGKVKKGDVLEIYQT

>DM\_train2594

MNDMGSSEVNDENKEKEARYSVMTKSELEALAVSAIREHRRLLWADQAVYEEWLRASDDPSISGPVLQTLQDEYVARQKRSEAQQEELSDILDALGFVPDVPFDDDN

>DM train2595

PLGSQFWVTVQRTEAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMFS FEAGRRCPSGPGTFTFQTAQGNDIFQAVETAIHRQKAQG

>DM\_train2596

ENLYFMLEMEIKITEVKENKLIGRKEIYFEIYHPGEPTPSRKDVKGKLVAMLDLNPETTVIQYIRSYFGSYK SKGYAKYYYDKDRMLYIEPEYILIRDGIIEKKEGE

>DM train2599

MAPTQLDIKVKALKRLTKEEGYYQQELKDQEAHVAKLKEDKSVDPYDLKKQEEVLDDTKRLLPTLYEKI REFKEDLEQFLKTYQGTEDVSDARSAITSAQELLDSK

>DM train2600

MIPGEYHVKPGQIALNTGRATCRVVVENHGDRPIQVGSHYHFAEVNPALKFDRQQAAGYRLNIPAG TAVRFEPGQKREVELVAFAGHRAVFGFRGEVMGPLEVNDE

>DM train2601

MGKTNDWLDFDQLAEEKVRDALKPPSMYKVILVNDDYTPMEFVIDVLQKFFSYDVERATQLMLAVA YQGKAICGVFTAEVAETKVAMVNKYARENEHPLLCTLEKA

>DM train2602

MAQKKPKRNLSALKRHRQSLKRRLRNKAKKSAIKTLSKKAIQLAQEGKAEEALKIMRKAESLIDKAAKG STLHKNAAARRKSRLMRKVRQLLEAAGAPLIGGGLSA

>DM train2603

VLLESEQFLTELTRLFQKCRTSGSVYITLKKYDGRTKPIPKKGTVEGFEPADNKCLLRATDGKKKISTVVSS KEVNKFQMAYSNLLRANMDGLKKRDKKNKTKKTK

>DM\_train2604

HFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKVLAIDHLNEDQLREKAKELWQTIYNLEAEKFDLQ EKFKQQKYEINVLRNRINDNQKVSKTRGKAKVTGRWK

>DM\_train2605

GSVSKWVRLNVGGTYFLTTRQTLCRDPKSFLYRLCQADPDLDSDKDETGAYLIDRDPTYFGPVLNYLR HGKLVINKDLAEEGVLEEAEFYNITSLIKLVKDKIRER

>DM\_train2606

VETKCPNLDIVTSSGEFHCSGCVEHMPEFSYMYWLAKDMKSDEDTKFIEHLGDGINEDETVRTTDGGI TTLRKVLHVTDTNKFAHYRFTCVLTTLDGVSKKNIWLK

>DM train2607

GMTESDRDQEASMREVVIVKSTPQRGKFNAFAELVGKLVSETRDFPGCLGAYLMLAPERNEQVVMHI WETPDALEAYLTWRADRGDFLEINEYLEVEQDFKTYQLA

>DM train2608

TKAIPWKINWQTMAFEYIGPQIEALLGWPQGSWKSVEDWATRMHPEDQEWVVNFCVKQSECGVD HEADYRALHRDGHYVWIRDVVHVVRDDSGEVEALIGFMFDIS

>DM train2609

PIEPQSDAHVLKSRLEWGEPAFTILDVRDRSTYNDGHIMGAMAMPIEDLVDRASSSLEKSRDIYVYGA GDEQTSQAVNLLRSAGFEHVSELKGGLAAWKAIGGPTE

>DM train2610

GMNKKTQLLEVIAALPEELVDQALNYVQMLQNPIQITPGVCGGQARIRNTRIPVWTLVAYRQQGAP DKELLANYPGLTAEDLSAAWHYYEQNPEQIDREIAQDDLV

>DM train2611

SMALGPFPAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLDVIGQVLPEATTTAFEYEDEDGDRI TVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRA

>DM train2612

MITVDITVNDEGKVTDVIMDGHADHGEYGHDIVCAGASAVLFGSVNAIIGLTSERPDINYDDNGGHF HIRSVDTNNDEAQLILQTMLVSLQTIEEEYNENIRLNYK

>DM\_train2613

MTLEKHAFKMQLNPGMEAEYRKRHDEIWPELVDLLHQSGASDYSIHLDRETNTLFGVLTRPKDHTM ASLPDHPVMKKWWAHMADIMATNPDNSPVQSDLVTLFHMP

>DM\_train2614

VGFAPELYCGLENCYDVLEVNREEFDKQKLAKAYRALARKHHPDRVKNKEEKLLAEERFRVIATAYETL KDDEAKTNYDYYLDHPDQRFYNYYQYYRLRAAPKVDL

>DM\_train2615

MGEETINSTQNKTRTKTTRPKAVYLWTVSDVLKWYRRHCGEYTQYEQLFAQHDITGRALLRITDSSLQ RMGVTDNRDREAIWREIVKQRLKTDIMEIRDMERLNIY

>DM\_train2616

EAEASNMSSAHKCIDTNVPENAACYRYLDGTEEWRCLLGFKEVGGKCVPASITCEENNGGCAPEAEC TMDDKKEVECKCTKEGSEPLFEGVFCSSSSGPHHHHHH

>DM\_train2617

GMKNEVFFGEGMKVVAAAYPDLYDIIVKLNDTVFTGKTLDYKTQKLIAIGIVASRCDEVAIEKQMKSA MKELGITKEEIADVLRVVLLTSGMPAFTKAMKILEKL

>DM\_train2618

MPVVKINAIEVPAGAGPELEKRFAHRAHAVENSPGFLGFQLLRPVKGEERYFVVTHWESDEAFQAWA NGPAIAAHAGHRANPVATGASLLEFEVVLDVGGTGKTA

>DM\_train2619

GPHMATADRDILARLHKAVTSHYHAITQEFENFDTMKTNTISREEFRAICNRRVQILTDEQFDRLWNE MPVNAKGRLKYPDFLSRFSSETAATPMATGDSAVAQR

>DM\_train2620

MSPFKKTYVLKLYVAGNTPNSVRALKMLKNILEQEFQGVYALKVIDVLKNPQLAEEDKILATPTLAKILP PPVRKIIGDLSDREKVLIGLDLLYDEIREREAEDQ

>DM train2621

QTLDIQRGATLFNRACAACHDTGGNIIQPGATLFTKDLERNGVDTEEEIYRVTYFGKGRMPGFGEKCT PRGQCTFGPRLQDEEIKLLAEFVKFQADQGWPTVSTD

>DM train2622

GHMTETKPRIAIRYCTQCNWLLRAGWMAQEILQTFASDIGEVSLIPSTGGLFEITVDGTIIWERKRDGG FPGPKELKQRIRDLIDPERDLGHVDRTKHEGLDTGS

>DM\_train2623

MDKPILKDSMKLFEALGTIKSRSMFGGFGLFADETMFALVVNNQLHIRADQQTSSDFETQGLKPYVYK KRGFPVVTKYYAISSELWESSDRLIEVAKKSLENAKL

>DM train2624

GAMGKCPTKVVLLRNMVGAGEVDEDLEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFERVESA

IKAVVDLNGRYFGGRVVKACFYNLDKFRVLDLAEQV

>DM\_train2625

GMINMKVAISMDVDKISNSFEDCKYFLIVRIDDNEVKSTKVIFNDESGKKSIVKENVNAIICKNISEENYK KFSKKIEIYHAEGDDVDKNISLFIEGELSKISNP

>DM train2626

YRALFEHAIDGIFIMDAEGHYLDVNPAICSAIGYTRDEFLALDWGVLSRGVDSGWAAASLARIVGGEP LREERTVWTRNGDQLTVELSAHLLPDGKILGIARDVS

>DM train2627

GSMSSDAQWLTAEERDQLIPGLKAAGWSELSERDAIYKEFSFKNFNQAFGFMSRVALQAEKMNHHP EWFNVYNKVQITLTSHDCGGLTKRDVKLAQFIEKAAASL

>DM\_train2628

SQTIALLNIYRNPQNSSQSADGLRSAVSDVEMQEHYDEFFEEVFTEMEEKYGEVEEMNVCDNLGDHL VGNVYVKFRREEDAEKAVIDLNNRWFNGQPIHAELSP

>DM\_train2629

SKGMALRSVGGMVIESPRNETEHWLLETVGRQAQQAGIGMPTVAIYDSADINAFATGAKRDDSLVA VSTGLLHNMTRDEAEAVLAHEVSHIANGDMVTMTLMQG

>DM\_train2630

MNRDQEKIQIENEMNAMHGTIKEDILKDFEEFKGYLKKQVNRGKKLGLDDGKLVKSAAILGDYLAKHE EPQNGEEMLLQELWSVADEDEKEHLAQLLVKLVDKQ

>DM\_train2631

MARPNFRYTHYDLKELRAGTTLEISLSSVNNVRLMTGANFQRFTELLDFKYLGGVAKKSPIRIAVPETM HWHLIIDAEGHSGLAESSVKMLPAQPQATLTRKAS

>DM\_train2632

MSHTILLVQPTKRPEGRTYADYESVNECMEGVCKMYEEHLKRMNPNSPSITYDISQLFDFIDDLADLS CLVYRADTQTYQPYNKDWIKEKIYVLLRRQAQQAGK

GHMTKLALFVRLEAKPGQEAALADFLASALPLANAESGTTAWFALKFGPSTFGVFDAFADEAGRQAH LNGQIAAALMANAATLLSSPPNIEKVELLAAKLPAGS

>DM train2634

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>DM\_train2635

GAKPGKKTRGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKL QPMITSETGKALIQTCLNSPDSPPRSDPTTDQR

>DM\_train2636

MTARNPLEAQAWALLEAVYDPELGLDVVNLGLIYDLVVEPPRAYVRMTLTTPGCPLHDSLGEAVRQA LSRLPGVEEVEVEVTFEPPWTLARLSEKARRLLGWG

>DM\_train2637

NGYTMQRDNQKTLAVYMFEEINRDVEYLSGRLSEKELKDKYRYYGRGYVRITDKDGQVITYEDGSVQ DKTVFLTNEGANKLGWKLEFLIDEKMFEEEILEKQN

>DM\_train2638

MSTLADQALHNNNVGPIIRAGDLVEPVIETAEIDNPGKEITVEDRRAYVRIAAEGELILTRKTLEEQLGR PFNMQELEINLASFAGQIQADEDQIRFYFDKTM

>DM train2639

GKKQPSLHYTAAQLLEKGVLVEIEDLPASHFRNVIFDITPGDEAGKFEVNAKFLGVDMERFQLHYQDLL QLQYEGVAVMKLFNKAKVNVNLLIFLLNKKFLRK

>DM\_train2640

MKSITTDELKNKLLESKPVQIVDVRTDEETAMGYIPNAKLIPMDTIPDNLNSFNKNEIYYIVCAGGVRSA KVVEYLEANGIDAVNVEGGMHAWGDEGLEIKSI

>DM\_train2641

TNRLVLSGTVCRAPLRKVSPSGIPHCQFVLEHRSVQEEAGFHRQAWCQMPVIVSGHENQAITHSITV GSRITVQGFISCHKAKNGLSKMVLHAEQIELIDSGD

>DM\_train2642

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>DM train2643

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>DM train2644

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>DM\_train2645

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>DM train2646

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>DM\_train2647

AHHHHHHGSSTRGDLIRILGEIEEKMNELKMDGFNPDIILFGREAYNFLSNLLKKEMEEEGPFTHVSNIK IEILEELGGDAVVIDSKVLGLVPGAAKRIKIIK

>DM\_train2648

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>DM\_train2649

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>DM\_train2650

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>DM train2651

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>DM train2653

VNFEVKDQTLMMELVPERLRGETATFDIEADGKVYVEKGRRVTARHIRQLEKDGVNFIEVPVEYIVGKV SAKDYVNEATGELIITANQEISLEALANLSQAG

>DM train2654

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>DM train2655

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>DM train2656

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>DM train2657

EAQSEKEEAPKPLHKVVVCVSKKLSKKQSELNGIAASLGADYRRSFDETVTHFIYQGRPNDTNREYKSV KERGVHIVSEHWLLDCAQECKHLPESLYPHTYN

>DM train2658

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>DM train2659

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>DM\_train2660

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>DM\_train2661

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>DM\_train2662

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>DM\_train2663

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>DM train2664

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>DM\_train2666

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>DM train2667

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>DM train2668

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>DM\_train2669

MRRYEVNIVLNPNLDQSQLALEKEIIQRALENYGARVEKVAILGLMVLAYPIAKDPQGYFLWYQVEMP EDRVNDLARELRIRDNVRRVMVVKSQEPFLANA

>DM train2670

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FKENGRVKQCVGTVTLDQIKDPLDITCNEVQGV

>DM\_train2671

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>DM train2672

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>DM train2673

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>DM\_train2674

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>DM\_train2675

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>DM\_train2676

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>DM\_train2677

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>DM\_train2678

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>DM train2680

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>DM\_train2681

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>DM\_train2682

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>DM\_train2683

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>DM\_train2684

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>DM train2685

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>DM\_train2686

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>DM\_train2687

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>DM\_train2688

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>DM\_train2690

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>DM train2691

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>DM\_train2692

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>DM train2693

GAHVSRVEKLPKDYQIVYKEIQKYLFKVGPVELNEGIGLLSEILGFFEEGAAAGKGVLDVTGTDVAAFCD ALIGDSKTYADLYQESIQQHVDKAMKNMKD

>DM train2694

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>DM\_train2695

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>DM\_train2696

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>DM\_train2698

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>DM train2699

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>DM train2700

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>DM\_train2701

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>DM train2702

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>DM\_train2703

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>DM train2704

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>DM\_train2705

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>DM train2707

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>DM train2708

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>DM\_train2709

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>DM\_train2710

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>DM\_train2711

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>DM\_train2712

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>DM\_train2713

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>DM train2714

MNSCILQATVVEAPQLRYAQDNQTPVAEMVVQFPGLSSKDAPARLKVVGWGAVAQELQDRCRLN DEVVLEGRLRINSLLKPDGNREKOTELTVTRVHH

>DM train2715

SPLAVGLAAHLRQIGGTMYGAYWCPHCQDQKELFGAAFDQVPYVECSPNGPGTPQAQECTEAGIT SYPTWIINGRTYTGVRSLEALAVASGYPLEEGR

>DM\_train2716

 $SWVWNQMFVLEEFSGPEPILVGRLHTDLDPGSKKIKYILSGDGAGTIFQINDITGDIHAIKRLDREEKAE\\ YTLTAQAVDFETNKPLEPPSEFIIKVQD$ 

>DM train2717

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RNVSGDAAALFRLHKFLTKWGLINYQVDSK

>DM\_train2718

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>DM train2720

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>DM train2721

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>DM\_train2722

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>DM\_train2723

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>DM\_train2724

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>DM\_train2725

MKSGIYQIKNTLNNKVYVGSAKDFEKAWKRHFKDLEKGCHSSIKLQRSFNKHGNVFECSILEEIPYEKD LIIERENFWIKELNSKINGYNIADATFG

>DM\_train2726

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>DM train2728

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>DM\_train2729

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>DM\_train2730

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>DM train2731

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>DM\_train2732

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>DM train2733

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>DM\_train2734

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>DM\_train2735

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>DM\_train2736

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>DM\_train2737

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>DM train2738

HETRFEAAVKVIQSLPKNGSFQPTNEMMLKFYSFYKQATEGPCKLSRPGFWDPIGRYKWDAWSSLG DMTKEEAMIAYVEEMKKIIETMPMTEKVEE

>DM\_train2739

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>DM train2740

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>DM train2741

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>DM\_train2742

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>DM\_train2744

 ${\sf GSHMSTLKEVQDNITLHEQRLVTTRQKLKDAERAVELDPDDVNKSTLQSRRAAVSALETKLGELKREL} \\ {\sf ADLIAAQKLASKPVDPTGIEPDDHLKEK} \\$ 

>DM\_train2745

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>DM train2746

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>DM train2747

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>DM train2748

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>DM train2749

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>DM train2750

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>DM train2751

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>DM\_train2752

MEDERIKLLFKEKALEILMTIYYESLGGNDVYIQYIASKVNSPHSYVWLIIKKFEEAKMVECELEGRTKIIRL TDKGQKIAQQIKSIIDIMENDT

>DM train2753

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>DM\_train2754

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>DM\_train2755

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>DM\_train2756

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>DM\_train2757

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>DM\_train2758

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>DM\_train2759

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>DM train2760

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>DM train2761

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>DM\_train2762

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>DM train2763

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>DM\_train2764

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>DM train2765

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>DM train2766

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>DM\_train2767

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>DM\_train2768

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>DM\_train2769

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>DM\_train2770

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>DM\_train2771

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>DM\_train2773

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>DM\_train2774

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>DM\_train2775

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>DM\_train2776

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>DM\_train2777

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>DM train2778

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>DM\_train2779

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>DM\_train2780

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>DM\_train2781

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>DM\_train2782

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>DM train2783

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>DM\_train2784

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>DM train2785

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>DM train2786

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>DM\_train2787

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>DM\_train2788

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>DM\_train2789

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>DM\_train2790

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>DM train2791

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>DM train2792

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>DM train2793

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>DM train2794

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>DM train2795

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>DM\_train2796

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>DM train2797

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>DM\_train2799

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>DM\_train2801

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>DM\_train2802

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>DM\_train2803

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>DM\_train2804

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>DM\_train2806

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>DM train2807

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>DM train2808

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>DM\_train2809

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>DM train2810

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**TTVVILRVDHRADIYRR** 

>DM\_train2811

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>DM train2812

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>DM train2813

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>DM\_train2814

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>DM\_train2815

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>DM\_train2817

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>DM\_train2818

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>DM\_train2819

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>DM train2821

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>DM\_train2822

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>DM\_train2823

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>DM\_train2824

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>DM\_train2825

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>DM train2826

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>DM\_train2827

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>DM\_train2828

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>DM\_train2830

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>DM train2831

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>DM train2832

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>DM train2833

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>DM train2834

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>DM\_train2835

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>DM\_train2837

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>DM\_train2838

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>DM train2839

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>DM train2841

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>DM train2842

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>DM train2843

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>DM train2844

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>DM train2846

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>DM\_train2847

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>DM train2848

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>DM\_train2849

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>DM\_train2850

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>DM\_train2852

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>DM\_train2853

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>DM train2855

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>DM train2857

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>DM\_train2858

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>DM train2859

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>DM\_train2860

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>DM train2861

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>DM train2862

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>DM train2869

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>DM\_train2877

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>DM train2880

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>DM train2881

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>DM train2882

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>DM\_train2886

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>DM train2888

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>DM train2889

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>DM\_train2890

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>DM train2892

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>DM train2893

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>DM\_train2894

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>DM train2895

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>DM\_train2896

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>DM\_train2906

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>DM train2907

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>DM\_train2908

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>DM\_train2909

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GSGEGSEDDPLYDEAVRFVTESRRASISAVQRKLKIGYNRAARMIEAMEMAGVVTPMNTNGSREVIA PAPVRD

MSNNQQMMLNRIKVVLAEKQRTNRWLAEQMGKSENTISRWCSNKSQPSLDMLVKVAELLNVDPR QLINGKIKI

NKYDWFEFFLNCGVDVSNCQRYTINFDREQLTEDMMPDINNSMLRTLGLREGDIVRVMKHLDKKFG RENIAS

AMATRQEEMIDHRLTDREWAEEWKHLDHLLNCIMDMVEKTRRSLTVLRRCQEADREELNYWIRRYS DAEDLK

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MVSGEVRTKKVPLDTNHKRFYDAFAQGAGKLDLDRQCVECHHEKPGGIPFPKNHPVKPADGPMRC LFCHKFK

MAGYLNNIALNLEIVLKNKADSPEVSETLVTRICENLLLSKEVSFLKADGSVENFKLSDMEYEITNTEELP E

QPRRPALRQCCNQLRQVDRPCVCPVLRQAAQQVLQRQIIQGPQQLRRLFDAARNLPNICNIPNIGA CPFRAW

ARARKGALVQCDPSIKALILQIDAKMSDIVLEELDDTHLLVNPSKVEFVKHELNRLLSKNIYNPMDEEE NO

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AVCPTGLFSNPLCCATNVLDLIGVDCKTPTIAVDTGAIFQAHCASKGSKPLCCVAPVADQALLCQKAI GTF

MNLTVNGKPSTVDGAESLNVTELLSALKVAQAEYVTVELNGEVLEREAFDATTVKDGDAVEFLYFMG GGK

GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAK SA

RTDRLEVCREYQRGNCNRGENDCRFAHPADSTMIDTNDNTVTVCMDYIKGRCSREKCKYFHPPAHL QAK

GDSVEKIVLELSGLSCHHCVARVKKALEEAGAKVEKVDLNEAVVAGNKEDVDKYIKAVEAAGYQAKLR S

HLNVLAKALYDNVAESPDELSFRKGDIMTVLEQDTQGLDGWWLCSLHGRQGIVPGNRLKILVGMYD KKP

GPLGSAEGWLPLSGGQGQSEDSDPLLQQIHNITSFIRQAKAAGRMDEVRTLQENLRQLQDEYDQQ OTEK

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GSHMPDWRQFCELHAQAAAVDFAHKFCRFLRDNPAYDTPDAGASFSRHFAANFLDVFGEEVRRVL VAGP

MEQKTLQVEGMSCQHCVKAVETSVGELDGVSAVHVNLEAGKVDVSFDADKVSVKDIADAIEDQGY DVAK

MVFKKVLLTGTSEESFTAAADDAIDRAEDTLDNVVWAEVVDQGVEIGAVEERTYQTEVQVAFELDGS Q

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