**Supplementary File 1**

Supplementary file 1a. The CASP3 sequences used for WebLogo analysis in this study.

Supplementary file 1b. The CASP7 sequences used for WebLogo analysis in this study.

Supplementary File 1c. The credits for the pictures used in this study.

Supplementary File 1d. The constructs of the truncate and chimeric proteins.

Supplementary File 1e. Primers used in this study.

**Supplementary File 1a. The CASP3 sequences used for WebLogo analysis in this study.**

|  |  |  |
| --- | --- | --- |
| Class | Species | Accession Number |
| MammaliaAvesReptiliaAmphibiaOsteichthyes | *Homo sapiens**Mus musculus**Sus scrofa**Canis lupus familiaris**Saimiri boliviensis* *Equus caballus**Mesocricetus auratus**Pan troglodytes**Ovis aries**Capra hircus**Pan paniscus**Ailuropoda melanoleuca**Oryctolagus cuniculus**Loxodonta africana**Bos taurus**Macaca fascicularis**Delphinapterus leucas**Aotus nancymaae**Vulpes vulpes**Heterocephalus glaber**Bos mutus grunniens**Balaenoptera acutorostrata* *Odobenus rosmarus divergens**Tursiops truncatus**Saimiri boliviensis**Theropithecus gelada**Rhinopithecus roxellana**Chlorocebus sabaeus**Arvicanthis niloticus**Castor canadensis**Urocitellus parryii**Neogale vison**Lynx rufus**Canis lupus dingo**Balaenoptera acutorostrata scammoni**Balaenoptera musculus**Vicugna pacos**Camelus bactrianus**Eptesicus fuscus**Pteropus alecto**Ochotona princeps**Equus quagga**Talpa occidentalis**Manis pentadactyla**Gracilinanus agilis**Corvus hawaiiensis**Taeniopygia guttata**Pyrgilauda ruficollis**Hirundo rustica**Onychostruthus taczanowskii**Passer montanus**Molothrus ater**Oxyura jamaicensis**Melopsittacus undulatus**Strigops habroptila**Aythya fuligula**Lonchura striata domestica**Geospiza fortis**Camarhynchus parvulus**Serinus canaria**Manacus vitellinus**Zonotrichia albicollis**Apteryx rowi**Numida meleagris**Gallus gallus**Tyto alba**Lagopus leucura**Pygoscelis adeliae**Calypte anna**Aquila chrysaetos chrysaetos**Haliaeetus leucocephalus**Tyto alba**Hirundo rustica**Cygnus atratus**Lepidothrix coronata**Amazona aestiva**Chaetura pelagica**Antrostomus carolinensis**Nipponia nippon**Pelecanus crispus**Leptosomus discolor**Dryobates pubescens**Manacus vitellinus**Parus major**Falco rusticolus**Numida meleagris**Pelodiscus sinensis**Gopherus evgoodei**Chelonia mydas**Dermochelys coriacea**Mauremys reevesii**Terrapene carolina triunguis**Trachemys scripta elegans**Python bivittatus**Pogona vitticeps**Zootoca vivipara**Podarcis muralis**Sceloporus undulatus**Lacerta agilis**Varanus komodoensis**Notechis scutatus**Pantherophis guttatus**Protobothrops mucrosquamatus**Eremias argus**Sceloporus undulatus**Gekko japonicus**Lacerta agilis**Notechis scutatus**Pseudonaja textilis**Sphaerodactylus townsendi**Thamnophis sirtalis**Crotalus tigris**Thamnophis elegans**Crocodylus porosus**Chelonoidis abingdonii**Chrysemys picta bellii**Mauremys mutica**Xenopus laevis**Bufo gargarizans**Rana temporaria**Bufo bufo**Geotrypetes seraphini**Microcaecilia unicolor**Nanorana parkeri**Cynops orientalis**Xenopus tropicalis**Rhinatrema bivittatum**Geotrypetes seraphini**Paralichthys olivaceus**Danio rerio**Dicentrarchus labrax**Larimichthys crocea**Scophthalmus maximus**Cynoglossus semilaevis**Cyprinus carpio**Cyprinodon variegatus**Cyprinodon tularosa**Takifugu rubripes**Salmo salar**Oncorhynchus mykiss**Monopterus albus**Nothobranchius furzeri**Miichthys miiuy**Anguilla japonica**Scleropages Formosus**Poecilia reticulata**Poecilia formosa**Oplegnathus fasciatus**Collichthys lucidus**Notothenia coriiceps**Poeciliopsis prolifica**Haplochromis burtoni**Cyprinus carpio**Cyprinus carpio**Electrophorus electricus**Amphiprion melanopus**Archocentrus centrarchus**Bagarius yarrelli**Oryzias melastigma**Oryzias latipes**Siniperca chuatsi**Kryptolebias marmoratus**Astyanax mexicanus**Miichthys miiuy**Xiphophorus couchianus**Oreochromis niloticus**Lutjanus peru**Mugil incilis* | P42574P70677Q95ND5Q8MKI5[NP\_001266895.1](https://www.ncbi.nlm.nih.gov/protein/NP_001266895.1?report=genbank&log$=prottop&blast_rank=1&RID=D4SGPGXV016)NP\_001157433.1Q60431XP\_009446811.1XP\_014960045.1NP\_001273018.1XP\_003823509.1XP\_002914062.1Q8MJC3XP\_023410784.1Q08DY9Q2PFV2XP\_022426661.1XP\_012327995.1XP\_025874057.1[EHB15384.1](https://www.ncbi.nlm.nih.gov/protein/EHB15384.1?report=genbank&log$=prottop&blast_rank=1&RID=D71C71FA016)[XP\_010834058.1](https://www.ncbi.nlm.nih.gov/protein/XP_010834058.1?report=genbank&log$=prottop&blast_rank=1&RID=D71HCWUW013)[XP\_007177921.2](https://www.ncbi.nlm.nih.gov/protein/XP_007177921.2?report=genbank&log$=prottop&blast_rank=1&RID=D71MV91Y013)[XP\_012422221.1](https://www.ncbi.nlm.nih.gov/protein/XP_012422221.1) [XP\_033704658.1](https://www.ncbi.nlm.nih.gov/protein/XP_033704658.1) AAV74267.1XP\_025242051.1XP\_010376231.2XP\_007998582.1XP\_034376775.1JAV41953.1XP\_026256383.1XP\_044081570.1XP\_046947013.1XP\_025327613.1XP\_007177921.1XP\_036694636.1XP\_006198038.1XP\_010951604.1XP\_008150114.1XP\_006916432.1XP\_004579072.1XP\_046504640.1XP\_037382298.1XP\_036750218.1XP\_044536929.1XP\_048160132.1XP\_030127125.3XP\_041335801.1XP\_039921773.1XP\_041283907.1XP\_039555833.1XP\_036238378.1XP\_035179722.1XP\_030904860.1XP\_030349011.1XP\_032043173.1OWK64686.1XP\_005415590.1XP\_030803986.1XP\_030094646.1XP\_008923018.1XP\_005483896.1XP\_025939844.1XP\_021249041.1NP\_990056.1XP\_042663613.1XP\_042726563.1XP\_009328950.1XP\_030305365.1XP\_029861401.1XP\_010568301.1XP\_032854868.1XP\_039921766.1XP\_035413755.1XP\_017664322.1KQK77628.1XP\_010000752.1XP\_010171751.1XP\_009473093.1XP\_009479867.1XP\_009958677.1XP\_009909179.1XP\_008923018.1XP\_015479949.1XP\_037254769.1XP\_021249038.1XP\_006128559.1XP\_030419000.1XP\_043402007.1XP\_043369528.1XP\_039396469.1XP\_029766549.1XP\_034627282.1XP\_025018785.1XP\_020658385.1XP\_034967628.1XP\_028600040.1XP\_042323800.1XP\_033017209.1XP\_044305785.1XP\_026522951.1XP\_034257179.1XP\_015687286.1QCQ80689.1XP\_042323800.1XP\_015272894.1XP\_033017209.1XP\_026522951.1XP\_026553662.1XP\_048364960.1XP\_013910221.1XP\_039186723.1XP\_032080611.1XP\_019390228.1XP\_032656285.1XP\_005282030.1XP\_044873973.1NP\_001081225.1XP\_044145804.1XP\_040189928.1XP\_040274658.1XP\_033799250.1XP\_030047368.1XP\_018421176.1AFN55260.1NP\_001120900.1XP\_029441076.1XP\_033799250.1XP\_019958716.1AWP39888.1ABC70997.1NP\_001290322.1AVW89178.1XP\_016894801.1XP\_018965718.1XP\_015245088.1XP\_038127805.1NP\_001027871.1NP\_001133393.1BAU69680.1XP\_020451082.1KAF7225424.1AHG06618.1AYC61977.1XP\_018591577.1XP\_008417983.1XP\_007549682.1AFM09714.1TKS72762.1XP\_010794822.1JAO80483.1XP\_005944370.2AGU12796.1AGU12795.1XP\_026884624.2AEA08874.1XP\_030591190.1TSN95700.1XP\_024138660.1NP\_001098140.1ADK47519.1XP\_017278585.1XP\_022539261.1AHG06618.1XP\_027872889.1ADJ57601.1QBY35776.1QDK54780.1 |

**Supplementary File 1b. The CASP7 sequences used for the WebLogo analysis in this study.**

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| --- | --- | --- |
| Class | Species | Accession Number |
| MammaliaAvesReptiliaAmphibiaOsteichthyes | *Homo sapiens**Mus musculus**Mesocricetus auratus**Bos taurus**Pan troglodytes**Macaca fascicularis**Oryctolagus cuniculus**Ovis aries**Capra hircus**Ailuropoda melanoleuca**Saimiri boliviensis boliviensis**Equus caballus**Delphinapterus leucas**Sus scrofa**Pan paniscus**Loxodonta africana**Canis lupus familiaris**Oryctolagus cuniculus**Vulpes vulpes**Heterocephalus glaber**Urocitellus parryii**Equus asinus**Tachyglossus aculeatus**Camelus bactrianus**Balaenoptera acutorostrata scammoni**Myodes glareolus**Dipodomys spectabilis**Delphinapterus leucas**Eptesicus fuscus**Bison bison bison**Pteropus alecto**Rhinopithecus bieti**Balaenoptera musculus**Saimiri boliviensis boliviensis**Myotis brandtii**Ursus americanus**Neogale vison**Vulpes lagopus**Equus quagga**Oryctolagus cuniculus**Galemys pyrenaicus**Manis pentadactyla**Gracilinanus agilis**Corvus hawaiiensis**Taeniopygia guttata**Pyrgilauda ruficollis**Hirundo rustica**Onychostruthus taczanowskii**Passer montanus**Molothrus ater**Oxyura jamaicensis**Turdus rufiventris**Melopsittacus undulatus**Strigops habroptila**Aythya fuligula**Lonchura striata domestica**Geospiza fortis**Camarhynchus parvulus**Serinus canaria**Manacus vitellinus**Zonotrichia albicollis**Apteryx rowi**Numida meleagris**Gallus gallus**Tyto alba**Lagopus leucura**Pygoscelis adeliae**Corvus brachyrhynchos**Calypte anna**Apteryx mantelli mantelli**Apaloderma vittatum**Haliaeetus leucocephalus**Tyto alba**Lonchura striata domestica**Cygnus atratus**Cyanistes caeruleus**Amazona aestiva**Mesitornis unicolor**Melopsittacus undulatus**Athene cunicularia**Camarhynchus parvulus**Gallus gallus**Chaetura pelagica**Ficedula albicollis**Serinus canaria**Cuculus canorus**Corvus cornix cornix**Nipponia nippon**Pelecanus crispus**Balearica regulorum gibbericeps**Manacus vitellinus**Phalacrocorax carbo**Parus major**Falco rusticolus**Corvus hawaiiensis**Pelodiscus sinensis**Gopherus evgoodei**Chelonia mydas**Dermochelys coriacea**Mauremys reevesii**Terrapene carolina triunguis**Trachemys scripta elegans**Python bivittatus**Pogona vitticeps**Zootoca vivipara**Podarcis muralis**Sceloporus undulatus**Anolis carolinensis**Varanus komodoensis**Lacerta agilis**Notechis scutatus**Notechis scutatus**Pantherophis guttatus**Python bivittatus**Protobothrops mucrosquamatus**Zootoca vivipara**Podarcis muralis**Sceloporus undulatus**Anolis carolinensis**Varanus komodoensis**Varanus komodoensis**Lacerta agilis**Notechis scutatus**Pantherophis guttatus**Protobothrops mucrosquamatus**Pseudonaja textilis**Sphaerodactylus townsendi**Crotalus tigris**Thamnophis elegans**Chelonoidis abingdonii**Mauremys mutica**Chrysemys picta bellii**Trachemys scripta elegans**Crocodylus porosus**Xenopus laevis**Lithobates catesbeianus**Bufo gargarizans**Rana temporaria**Bufo bufo**Geotrypetes seraphini**Microcaecilia unicolor**Nanorana parkeri**Cynops orientalis**Xenopus tropicalis**Xenopus tropicalis**Rhinatrema bivittatum**Paralichthys olivaceus**Danio rerio**Dicentrarchus labrax**Larimichthys crocea**Scophthalmus maximus**Cynoglossus semilaevis**Oncorhynchus kisutch**Cyprinus carpio**Cyprinodon variegatus**Fundulus heteroclitus**Cyprinodon tularosa**Takifugu rubripes**Salmo salar**Oncorhynchus mykiss**Ictalurus punctatus**Monopterus albus**Nothobranchius furzeri**Alosa alosa**Alosa sapidissima**Anabarilius grahami**Salvelinus alpinus**Salvelinus alpinus**Gadus morhua**Labrus bergylta**Toxotes jaculatrix**Collichthys lucidus**Notothenia coriiceps**Melanotaenia boesemani**Clarias magur**Anabas testudineus**Chelmon rostratus**Anguilla anguilla**Trematomus bernacchii**Pimephales promelas**Bagarius yarrelli**Seriola dumerili**Xiphophorus hellerii**Sebastes umbrosus**Parambassis ranga**Oryzias melastigma**Megalops cyprinoides**Salarias fasciatus**Salvelinus namaycush* | P55210P97864P55214XP\_002698555.1XP\_003825650.1XP\_011822901.1XP\_002718761.1XP\_042094975.1XP\_005698554.1[XP\_034519188.1](https://www.ncbi.nlm.nih.gov/protein/XP_034519188.1?report=genbank&log$=prottop&blast_rank=1&RID=D23B7GXH016)[XP\_034519188.1](https://www.ncbi.nlm.nih.gov/protein/XP_034519188.1?report=genbank&log$=prottop&blast_rank=1&RID=D23CUADR016)[XP\_014588811.1](https://www.ncbi.nlm.nih.gov/protein/XP_014588811.1?report=genbank&log$=prottop&blast_rank=1&RID=D23ENPZ1016)[XP\_022424428.1](https://www.ncbi.nlm.nih.gov/protein/XP_022424428.1?report=genbank&log$=prottop&blast_rank=1&RID=D23H4PTM013)[XP\_020928977.1](https://www.ncbi.nlm.nih.gov/protein/XP_020928977.1?report=genbank&log$=prottop&blast_rank=1&RID=D23V08DC016)[XP\_003825650.1](https://www.ncbi.nlm.nih.gov/protein/XP_003825650.1?report=genbank&log$=prottop&blast_rank=1&RID=D23X9W00013)[XP\_010587277.1](https://www.ncbi.nlm.nih.gov/protein/XP_010587277.1?report=genbank&log$=prottop&blast_rank=3&RID=D242WCE1016)[XP\_005637795.1](https://www.ncbi.nlm.nih.gov/protein/XP_005637795.1?report=genbank&log$=prottop&blast_rank=2&RID=D247044R013)[XP\_002718761.1](https://www.ncbi.nlm.nih.gov/protein/XP_002718761.1?report=genbank&log$=prottop&blast_rank=1&RID=D249T0AU016)[XP\_025849552.1](https://www.ncbi.nlm.nih.gov/protein/XP_025849552.1?report=genbank&log$=prottop&blast_rank=1&RID=D24EE87H016)[XP\_004838949.1](https://www.ncbi.nlm.nih.gov/protein/XP_004838949.1?report=genbank&log$=prottop&blast_rank=2&RID=D24HF1BG013)XP\_026244955.1XP\_014723324.1XP\_038614071.1XP\_010968130.1XP\_007173176.1XP\_048279394.1XP\_042545561.1XP\_022424428.1XP\_028005288.1XP\_010857610.1XP\_006920912.1XP\_017747992.1XP\_036685506.1XP\_010331177.1XP\_005874576.1XP\_045659135.1XP\_044096500.1XP\_041601933.1XP\_046510739.1XP\_002718761.1[KAG8517409.1](https://www.ncbi.nlm.nih.gov/protein/KAG8517409.1?report=genbank&log$=prottop&blast_rank=1&RID=D24RFGZJ013)XP\_036754817.1XP\_044521530.1XP\_048166914.1XP\_030132303.3XP\_041317496.1XP\_039927077.1XP\_041271849.1XP\_039565350.1XP\_036241577.1XP\_035186324.1KAF4791228.1XP\_005154576.1XP\_030344254.1XP\_032047208.1XP\_021381698.1XP\_005416425.1XP\_030807062.1XP\_009085424.1XP\_029814357.1XP\_005481147.1XP\_025925619.1XP\_021255526.1XP\_040530979.1XP\_032844696.2XP\_042719653.1XP\_009324216.1XP\_008632648.1XP\_030309482.1XP\_013797196.1XP\_009876249.1XP\_010563034.1XP\_032844693.2OWK56987.1XP\_035403725.1XP\_023785639.1KQK80332.1XP\_010180183.1XP\_005154576.1XP\_026707509.1XP\_030807062.1XP\_421764.3XP\_010006222.1XP\_005048826.1XP\_009085424.1XP\_009568871.1XP\_039410202.1XP\_009474328.1XP\_009483464.1XP\_010295946.1XP\_017924402.1XP\_009508983.1XP\_015489222.1XP\_037256573.1XP\_048166914.1XP\_006135034.1XP\_030424754.1XP\_037760318.1XP\_038265833.1XP\_039402417.1XP\_026506928.1XP\_034632909.1XP\_007441954.1XP\_020635566.1XP\_034988803.1XP\_028586060.1XP\_042313006.1XP\_008112942.1KAF7253514.1 XP\_033005524.1XP\_026526250.1XP\_026526259.1XP\_034296056.1XP\_007441954.1XP\_015676047.1XP\_034988803.1XP\_028586060.1XP\_042313006.1XP\_003223489.1KAF7253514.1XP\_044295172.1XP\_033005524.1XP\_026526250.1XP\_034296056.1XP\_015676047.1XP\_026560589.1XP\_048360798.1XP\_039208641.1XP\_032081709.1XP\_032631043.1XP\_044881213.1XP\_042711209.1XP\_034632910.1XP\_019411759.1BAA94748.1ACO51875.1XP\_044152860.1XP\_040217514.1XP\_040291577.1XP\_033799427.1XP\_030058570.1XP\_018419981.1AFN55259.1NP\_001016299.1CAJ82745.1XP\_029466303.1XP\_019965790.1AWP39893.1CBN81450.1XP\_010740374.1XP\_047183439.1XP\_024912944.1XP\_020329675.1XP\_042591656.1XP\_015245976.1XP\_012710613.2XP\_029690759.1 XP\_029690759.1XP\_014012537.2QWC93456.1XP\_017338665.1XP\_020460887.1KAF7204369.1XP\_048088911.1XP\_041939757.1ROI81868.1XP\_023842909.1XP\_023861943.1XP\_030195895.1XP\_020506858.1XP\_040923277.1TKS89629.1XP\_010765636.1XP\_041830322.1KAF5896512.1XP\_026207209.1XP\_041817955.1XP\_035260198.1 XP\_033975792.1KAG1954935.1TSK14754.1XP\_022598445.1XP\_032429481.1XP\_037611938.1XP\_028285718.1KAF6724972.1XP\_036387401.1XP\_029954337.1XP\_038866282.1 |

**Supplementary File 1c. The credits for the pictures used in this study.**

|  |  |
| --- | --- |
| Icon | Figure Origin |
| MonotremataDidelphimorphiaDiprotodontiaAfrosoricidaMacroscelideaPilosaPrimatesRodentiaLagomorphaEulipotyphlaPerissodactylaArtiodactylaCarnivoraPholidotaChiroptera*Homo sapiens*AvianReptiliaAmphibiaActinopterygii | Becky-BarnesDaniel-StadtmauerGavin-PrideauxMo-HassanuncreditedXavier-A-JenkinsT-Michael-KeeseyJiro-WadaMargot-MichaudBecky-BarnesMercedes-Yrayzoz-vectorized-by-T-Michael-KeeseyDFoidl-modified-by-T-Michael-KeeseyChlo-SchmidtSteven-TraverMargot-MichaudNASAFerran SayolGabriela Palomo-MunozYusan YangMilton Tan |

**Supplementary File 1d.** **The constructs of the truncate and chimeric proteins.**

|  |  |
| --- | --- |
| Truncate/chimeric protein | Amino acid sequence |
| TrGSDME-NTTrGSDME-CTHsNT-TrCTTrNT-HsCTHsp20-Trp10Trp20-Hsp10 | 1-258 aa of TrGSDME259-474 aa of TrGSDME1-270 aa of HsGSDME + 259-274 aa of TrGSMDE1-258 aa of TrGSDME + 271-496 aa of HsGSDME1-198 aa of HsCASP7 + 207-313 aa of TrCASP71-206 aa of TrCASP7 + 199-303 aa of HsCASP7 |

**Supplementary File 1e.** **Primers used in this study.**

|  |  |
| --- | --- |
| Primer | Sequence (5’-3’) |
| Clone primersTrCASP3 forwardTrCASP3 reverseTrCASP7 forwardTrCASP7 reverseTrGSDME forwardTrGSDME reverseRecombiantion primersTrCASP3 forwardTrCASP3 reverseTrCASP7 forwardTrCASP7 reverseTrGSDME forwardTrGSDME reverseTrGSDME-D255R forwardTrGSDME-D255R reverseTrGSDME-D258A forwardTrGSDME-D258A reverseHsNT-TrCT forwardHsNT-TrCT reverseTrNT-HsCT forwardTrNT-HsCT reverseHsp20-Trp10 forwardHsp20-Trp10 reverseTrp20-Hsp10 forwardTrp20-Hsp10 reverseMmGSDME-N234S forwardMmGSDME-N234S reverseHsGSDME-Δ261-266 forwardHsGSDME-Δ261-266 reverseHsGSDME-Δ281-296 forwardHsGSDME-Δ281-296 reverseOverexpression preimersTrGSDME-FL forwardTrGSDME-FL reverseTrGSDME-NT forwardTrGSDME-NT reverseTrGSDME-CT forwardTrGSDME-CT reverseTrCASP7 forwardTrCASP7 reverseTrCASP3 forwardTrCASP3 reverseHsGSDME forwardHsGSDME reverseHsCASP7 forwardHsCASP7 reverseHsCASP3 forwardHsCASP3 reverseMmCASP7 forwardMmCASP7 reverse | ATGTCGGCCAACGGACCGGAAAAATACATCTCTTTGGTCAGCATGCAGATGGCTGGAGAACCGTTAAAGTACAGTTCTTTTGTCAGCATCGATGTTTTCCAAGGCCACGGATCGATAAAATCCGTTTCAGACTTTGTAAGAAGGAGATATACATATGATGTCGGCCAACGGACCGTGGTGGTGGTGGTGCTCGAGGGAAAAATACATCTCTTTGGTCAGCTAAGAAGGAGATATACATATGATGCAGATGGCTGGAGAACCGTGGTGGTGGTGGTGCTCGAGGTTAAAGTACAGTTCTTTTGTCAGCATCGTAAGAAGGAGATATACATATGATGTTTTCCAAGGCCACGGGTGGTGGTGGTGGTGCTCGAGATCGATAAAATCCGTTTCAGACTTTGTGGGAATCCCCGAGAGCGGTGGATGGTCGTTGTCTAGACAACGACCATCCACCGCTCTCGGGGATTCCCAAGACAACGACCATCCACCGCTCTCGGGGATTCCCAAACGACCATCCACCGCTCTCGGGGATTCCCATAAGAAGGAGATATACATATGATGTTTGCCAAAGCAACCAGGGTGGTGGTGGTGGTGCTCGAGATCGATAAAATCCGTTTCAGACTTTGTAAGAAGGAGATATACATATGATGTTTTCCAAGGCCACGGGTGGTGGTGGTGGTGCTCGAGTGAATGTTCTCTGCCTAAAGCTAAGAAGGAGATATACATATGATGGCAGATGATCAGGGCTGGTGGTGGTGGTGGTGCTCGAGGTTAAAGTACAGTTCTTTTGTCAGCATCTAAGAAGGAGATATACATATGATGGCTGGAGAACCCACTGAGGTGGTGGTGGTGGTGCTCGAGTTGACTGAAGTAGAGTTCCTTGGTGAGTTATTACTCATGGAGGAGCCCAGGGAAAGCTTTCCCTGGGCTCCTCCATGAGTAATAACCCAGGATGGACATCCATTTGCGGAGCTGCCAAATGGATGTCCATCCTGGGAAGATATCCCATCCTGGTCTTT GACATGCCAGATGCTGCGCACTGGCATGTCAAAGACCAGGGGGTCCAGGTAGATCAGATCTCGAGCTCAAGCTTATGTTTTCCAAGGCCACGGCATGGTGGCGACCGGTGGATCATCGATAAAATCCGTTTCAGACTTTGTCAGATCTCGAGCTCAAGCTTATGTTTTCCAAGGCCACGGCATGGTGGCGACCGGTGGATCGTCTACAGCATCAGGAGACTCCTCAGATCTCGAGCTCAAGCTTATGGGCCGGTGCCTGGACATGGTGGCGACCGGTGGATCATCGATAAAATCCGTTTCAGACTTTGTTCTGAAGAGGACTTGAATTCAATGGCTGGAGAACCCACTGAGACGACTCACTATAGTTCTAGATCAGTTAAAGTACAGTTCTTTTGTCAGCTTCTGAAGAGGACTTGAATTCAAATGTCGGCCAACGGACCACGACTCACTATAGTTCTAGAGGAAAAATACATCTCTTTGGTCAGCCAAGCTTGCGGCCGCGAATTCAATGTTTGCCAAAGCAACCAGGACGACTCACTATAGTTCTAGATCATGAATGTTCTCTGCCTAAAGCTTCTGAAGAGGACTTGAATTCAATGGCAGATGATCAGGGCTGACGACTCACTATAGTTCTAGACTATTGACTGAAGTAGAGTTCCTTGGTGTTCTGAAGAGGACTTGAATTCAATGGAGAACACTGAAAACTCAGTGGACGACTCACTATAGTTCTAGATTAGTGATAAAAATAGAGTTCTTTTGTGAGCTTCTGAAGAGGACTTGAATTCAATGACCGATGATCAGGACTGTGCACGACTCACTATAGTTCTAGATCAACGGCTGAAGTACAGCTCTTTGG |