

>Python

-----SSC
-LLE-STSPQS-T---TT-ATVVST--SST-----

>Python_regius

-----SATEMYVKK-ENNANSSC
-LLE-STSPQS-T---TT-ATVVST--SST-----

>Trimeresurus_flavoviridis

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TYYSYLYQPSLYPYNN-----LYNYSQYQMAVATETTSG-DMGSPLTGSPVKSSLRSLP
TTYMSSQSGNQWQVKSPEGR---H--SLSSQYRMHSYYPSSSYLGQSVGGPACVPQIFTF
EENPSYSETKTN

>Elaphe_quadrivirgata

CQCKKCSLIAERQVMAAQV-ALRRQQAQEEELGISHPIPLPSATEMYVKK-ENNANSSC
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TTYMSSQSGNQWQVKSPEGR---H--SLSSQYRMHSYYPSSSYLGQSVGAPACVPQIFTF
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>Notechis_scutatus

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>Ctenotus_taenioulatus

-----EVYVKK-ENNANGSC
LLL-E-SSSPQSTT---A-ATTASA--SST-----

>Eulamprus_quoyii

-----EVYVKK-ESNANGSC
LLL-E-SSSPQSTT---A-ATTASA--SST-----

>Eublepharis_macularius

-----SATEMYVKK-ESNANGSC
LLM-E-SGSPTQSTT---TM-AATGSA--SVT-----

>Gekko_hokouensis

-----ALRRQQAQEEELGISHPIPLPSATEMYMKK-ENNANGSC
LLL-E-SSSPQSTT---TT-ATSGAA--SSTEGRMLMQDIPSLSSRGHLESTSDLVVDV
TYYSYFYQP-LYPYNN-----LYNYSQYQMAVSSSETTSG-DMGSSLVGSPAKNSLRSLP
ATYMSSQSGNQWQVKSPPDSR---H--GMSSQYRMHTYYPPTSYLGQSVGTPACVPQILTF
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>Calotes_versicolor

CQCKKCSLIAERQVRMAAQV-ALRRQQAQEEELGISHPIPLP---EMYVKK-ESNASGTC
LVL-E-GGSPPPS-T---ST-ATAGSS--AATEGRMLIPDLPSLSSRGHLESTSDLVVDS
TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASESTSG-EMGSPLVGSPVKNSLRSLP
ATYMSSQSGNQWQVKS PDNR---H--AMGSQYRMHSY-----

>Pogona_vitticeps

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TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASETTSG-EMGSPLVGSSVKNSLRSLP
ATYMSSQSGNQWQVKS PDNR---H--GVSSQYRMHSYYPSTPYLGQNVGAPACVPQIFTF
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>Leiolepis_reevesii

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ATYMSSQSGSQWQVKS PDGR---H--GVSSQYRMHSYYPSTSYLGQNVGAPACVPQIFTF
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>Anolis_carolinensis

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TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASETTSG-DMGSPLVGSPVKNSLRSLP
TTYMSSQSGNQWQVKS PENR---H--GVSSQYRMHSYYPSTSYLGQSVGGPACVPQIFTF
EESSYSETKAN

>Aspidoscelis_inornata

CRCEKCILIAERQVRMAAQV-ALRRQQAQEEELGISHLIPLPSATEKFKVKK-ENSTNGSC
LQL-D-NSSPPQ-----T-ATTGSG--SSAEGRMLIQDIPSLTSRGHLESTSDLVVD-
--YSSFYQPSLYPYNNYSQYQMYSYSQYQMAMASETTSG-DVGSPLVGSPVKNSLRSLP
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>Sphenodon_punctatus

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TYYSSFYQPSLYPYNN-----LYNYPQYQMAVATDSSSS-DLGSTLVGSPVKNSLRSLP
ATYMSSQSGNQWQVKS PESR---H--AAMGSQYRMHSYYPASYLGQSVGGPTCVPQIFTF
EESPSYSESKAN

>Monodelphis_domestica

CQCKKCNLIAERQVRMAAQV-ALRRQQAQEEELGISHPIPLPSAAELLVKR-ENNGSSSC
LMS-E-SSSPTQA-P---ST-PT---T--S--SEGRMVIQDIPSVTSRGHLENTSDLVSDS
TYYGsfyQPSLFPYNN-----LYNYPQYSMALAADSSSG-EMGSTLGGSPVKNSLRSLP
ATYVSGQSGNQWQMKNTENR---H--GMGSQYRMHSYYPATSYLSQSVSQ-----IFAF
EDSPSYSEAKAS

>Sarcophilus_harrisii

CQCKKCNLIAERQVRMAAQV-ALRRQQAQEEELGISHPIPLPSAAELLVKR-ENNGSSSC
LMS-E-SSSPTQA-P---ST-PT---T--S--SEGRMVIQDIPSVTSRGHLENTSDLVSDS
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ATYVSGQSGNQWQMKNTENR---H--AMGSQYRMHSYYPATSYLSQSVSQ-----IFAF
EDSPSYSEAKAS

>Rattus_norvegicus

CQCKKCSLIAERQVRMAAQV-ALRRQQAQEEELGISHPIPLPSAAELLVKR-ENSASNPC
LMA-E-SSSSAQ-P-PAST-PT---P--TVSEGRMVIQDIPAVTSRGHMENAPDLMSDP
AYYSSFYQPSLFPYNN-----LYNYPQYSMALSAESSSG-DVGNPLGGSPVKNSLRSLP
APYVPAQTGNQWQMKTSEGR---H--PVSSQYRMHSYYPSSYLGQSMSQ-----IFTF
EEGSPSYSEAKAS

>Felis_catus

CQCKKCNLIAERQVRMAAQV-ALRRQQAQEEELGISHPIPLPSAAELLVKR-ESNGNNPC

LMT-E-SSSPSQ-G-PAST-PT---T--AASEGRMVIQDIPAVTSRGHMENTPDLVSDS
TYYSFFYQPSLFPYNN-----LYNYPQYSMALAADSSSG-DVGNPLGGSPVKNSLRSLP
APYVPSQPGNQWQMKNSENR---H--PMSSQYRMHSYPPPSYLGQSVSQ-----IFTF
EDGPSYSEAKAS

>Loxodonta_africana

CLPRSCSSFSRRCPTPLV-ALRRQQAQEEELGISHPIPLPSAAELLVKR-ENSGSNPC
LMT-E-SSGSSQP-PVPAST-PT---T--AASEGRMVIQDIPAATSRGHVENTPDLVSDP
TYYSFFYQPSLFPYNN-----LYNYPQYSMALAADSSSG-DVGSSLGGSPVKNSLRSLP
TPYVPGQTGNQWQMKNAESR---H--AMNSQYRMHSYPPPSYLGQSVSQ-----IFTF
EDGPSYSEAKAS

>Orycteropus_afer

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TYYSFFYQPSLFPYNN-----LYNYPQYSMALATDSSHG-DMGNPLGGSPVKNSLRNLP
ATYVPGQTGNQWQMKGAESR---HT-TMGSQYRMHSYPPPSYLGQSVSP-----IFSF
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>Xenopus_tropicalis

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PYYSNFYQPPLYPYNN-----LYNYPYQMAVATESTSGNDMGGI-SGPSMKNSHRNHP
AAYVPSQSGNQWQMKNGENRFPGH--SASSQFRMHSYPP--YLGQSVNPVCPVPPFLTF
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>Xenopus_laevis

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PYYSNFYQPPLYPYNN-----LYNYPYQMAAAESTSGNDMGGI-SGPPLKNNHRNHP
AAYVPSQSGNQWQMKNRENRFPGH--SGSSQFRMHSYPP--YLGQSVNPACVPPFLTF
EEIPSYSEAKAS

>Podarcis_siculus

-----V-ALRRQQAQEEELGISHPIPLP---EPLVKK-ESNSGGTC
LLL-E-GNSPTPS-T---ST-ATAGST--APT-----

>Trachemys_scripta

-----QAQEEELGISHPIPLPSAPELFVKK-ENNGGSSC
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TYYSFFYQPSLYPYNN-----LYNYSQYQMAVASDSSSS-DMGGTLVGSPVKNSLRSLP
ATYMSSQSGNQWQMKSTESR---H--AMSSQYRMHSYPPASYLGQSVSTPACVPQIFTF
EDRPSYSGSKAS

>Terrapene_carolina

-----APELFVKK-ENNGGSSC
LLL-E-SSSPTHS-T---NT-ATTAST--TPS-----

>Malaclemys_terrapi

-----QEELGISHPIPLPSAPELFVKK-ENNGGSSC
LLL-E-SSSPTHS-T---NT-ATTAST--TPS-----

>Chrysemys

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ATYM-----

>Staurotypus_triporcatus

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>Apalone_mutica

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ATYM-----

>Pelodiscus_sinensis

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TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASESSSS-DMGGTLVGSPVKNSLRSLP
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>Carettochelys_insculpta

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LLL-E-SSSQHTS-T---NT-ATTASS--TLA-----

>Podocnemis_expansa

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LLL-E-SSSPHTS-T---NT-ATTAST--TAA-----

>Mauremys_reevesii

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TYYGSFYQPSLYPYNN-----LYNYSQYQMAVASESSSS-EWGAHYVVGSPVKNSLRQLP
ATYMSSQSGNQWQMKSTESR---H--AMSSQYRMHSYYPASYLGQSVSTPACVPQIFTF
EDSPSYSESKAS

>Emydura_macquarii

-----EEELGISHPIPLPSAPELFVKK-ENNGGSSC
LLL-E-SSSPHTS-T---NT-VTTASS--TPA-----

>Pelomedusa_subrufa

-----VKK-ENNGGSSC
LLL-E-SNSPHTS-T---NT-VTTAST--TPA-----

>Chelonia_mydas

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TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASESSSS-DMGGTLVGSPVKNSLRSLP

ATYMSSQSGNQWQMKSTESR---H--AMSSQYRMHSYYPASYLQGSVSTPACVPQIFTF
EDSPSYSESKAS

>Lepidochelys_olivacea

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TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASESSSS--DMGGTLVGSVPKNSLRSLP
ATYMSSQSGNQWQ-----
-----G

>Meleagris

-----LVVDS
TYYSSFYQPSLYPYNN-----LYNYSQYQMAVASEPSSS-ETGGTFVGSAMKNSLRSLP
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>Gallus_gallus

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TYYSSFYQPSLYPYNN-----LYNYSQYQMAVATESSSS-ETGGTFVGSAMKNSLRSLP
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>Struthio_camelus

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>Columba_livia

-----VALRRQQAQEEELGISHPVPLPSAPETFVVKK--NSGGSSC
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>Ficedula_albicollis

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>Geospiza_fortis

-----V-ALRRQQAQEEELGISHPVPLPSVPETFVVKK--NSGGNSC
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>Zonotrichia_albicollis

-----V-ALRRQQAQEEELGISHPVPLPSVPETFVVKK--NSGGNSC
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>Pseudopodoces_humilis

CQCNCSLIAERQVMAAQV-ALRRQQAQEEELGISHPVPLPSVPETFVVKK--NSGGSSC
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EDIPSSSESKAR

>Falco_peregrinus

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PYYSGFYQPSLYPYNN-----LYNYSQYQMAVAGEPSSS-EAEGMILGPAMKNSLRSLP
AAYMPSQSGKQWQVKGMENH---Q--AISSQYRMCSYYPASYLGQGVGTPTCVTQILTS
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>Alligator_mississippiensis

-----SLIAERQVRMAAQV-ALRRQQAQEEELGISHPIPLPSATELKVKK-ENSGGSSC
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>Gavialis_gangeticus

-----V-ALRRQQAQEEELGISHPIPLPSATELKVKK-ENSGGSSC
LLL-E-SSSPHST-T---ST-VTTVST--SPS-----

>Alligator_sinensis

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>Crocodylus_palustris

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