1) IL17 protein sequences that contain the complete IL-17 domain. The IL-17 domains are marked with the red font.

>C.briggsae\_XP\_002637129.1 Hypothetical protein CBG09631

KEELSAWMQISMNGQFDDMALEEWSTNGKEPEICGKSPRAEGSSTIMERALCPWESRVNFQESREPKLIAESVCLCRKSRGSTGAFCMPIIRKVPILRRISCDRSTGLWNYVRSTELITVGCHSVLPRTQRNVRLANLSSDRVVV

>C.elegans\_NP\_505700.2 Protein F25D1.3

MICFRTAFILILGVVIGTTAKRHNVRRHVNGKWTDKHCEEPPSLKEDLATWMQISMSGQFDDTALEEWSTNGKEPEICEKSPKADGVTTIMERALCPWDSRVNYQESREPKLIAESVCLCRKSRGSTGAFCMPIVRKVPILRRVSCDRSTGLWNYVRSTELITVGCHSVLPRTQRAARLAHLSSSRIIV

>C.elegans\_NP\_510131.2 Protein T22H6.1

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>C.teleta\_199819

MQILFQLGPSDAFQSTVGNIFWVREGLESHDSCTAIQQTKAGRWNMTSYPLNSLKRVREFYSFSSERVCVLFVMVALVTSCMEPNLTSIWQTTLYQNGINNAQNQQGDYAPVTECRDHCDWSSELGCRVCETVEGQRDCSAPSTSGSLNRKSFCPWYYVSTYDERRYPRDLFEARCSCQKCGINNIFSCEHVHHVTPLLYKTGSADNDGYCIYVPRLTRIAVGCACALSKSQN

>C.teleta\_198235

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>C.teleta\_206957

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>C.teleta\_216301

MKYSFLLSAFVAVFNLGVVMISARSMAQCKERSDRQLLTLWQHHASVHNASLLQVPEYSHHARTSRHRAAAFPLTNQPTCSGSHQIAELSERSVCSWHHVITSSPDRYPKDMVEARRAAECGRHCLGRQGRCVELRYPVAIIKKTGRCDHEGFYAYEARWHPLVVGYTCRARSTMATYAA

>C.teleta\_205055

MVILTAHQSSPAPLQCRERPRDHLHQMWSTYSTSLGIHESSFAVKEMPGNFSRHPYPQSSPLSSGLNSCNPGNHVTQRVHQRSHCAWSYALSYDPDRYPNLLVEAVRPSDCVYCLGDGICEAMTYPVIILRKTGQCDAAGFYEYVGGWLRLTVGFTCAVRPEVIAF

>C.teleta\_209749

MKAFVEAEFAAKIKDHSGLEADYRGHFICMPMDVYLSELNLDAIAEQSWNSEFTLFIRCRIFYILSLCVRKAINGYHRQQRPVHACGDPIEQLPKPMLAFDFNDSYDTRVLSFCLAKCSHESKRLQVMQGTKFTYPKSNQFLDRYWKCSGALFTTYLYGGFQLLQLTFFEVLRVVTASLLVGQSHSASFRCTEPSQKDLHAQWTAFASSETAFAHPSVYLLPEYRHHITPSTFDSQEFALDAPSGDVCAVSDDIRSSVARRSLCAWYHVISSSDDRYPRDIVEAHRPDECGHRCGLSGGVCAELTFPVAVLRRTARCDEHGLYVYEGAWHDMVVGFTCTAAPEATSFA

>L.gigantea\_152638

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>L.gigantea\_169526

MSFKVALTLLLIIMPYFLKCLSEGRTIANSHRRTQCKMPKNLCQLRKEVIRPAALRDAFSIDLINGKNITDVPPEYIDTHHYVSGGSKICQKSSDNELCPVYYVLNVDENRIPNSFLEAVCSCAWPQMDILKDTRVECQTKNYYTKVLRRTGCDEEHNTFIYEAVWEPVRIGCVALSGPERYISLQPVSPI

>L.gigantea\_164174

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>L.gigantea\_228210

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>L.gigantea\_172928

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>L.gigantea\_159302

MAYKLFFVAMVSLLSSGGRSMPIDNKTCVDPDMSKIKLDVDELHDSFYQLPSMNDHIVNTTSASPYIATHRSYMHGPKQCPTIEDIVNRYDGHICPVYYILNHDENRIPKSFVEAECSCGKPPIQIEGGVLLLECAPLYKYTKVQRRIGCDNDGFYIYTPMWEKVKIGCFTQLPLGFIGDGVGTPY

>C.gigas\_ABO93467.1\_interleukin-17

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>C.gigas\_EKC33705.1 hypothetical protein CGI\_10020734

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>C.gigas\_EKC26195.1 hypothetical protein CGI\_10027182

MGKLNFLLLLAISDIWIIPVATLCRDPESLNITTLQMDVEKKLTLRNVPNSFVEKRTHTRRFNARCPSKTDVLSGPKFRTSICPTYRVTDVDVNRIPQTIVQRRCKCTECLSVLDSTLGPRAFSRCVPTFQYQMVLRRVGCASGVFEYKPVMEPFVVGCSCKLFFDQ

>C.gigas\_EKC33786.1 hypothetical protein CGI\_10014828

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>C.gigas\_EKC38792.1 hypothetical protein CGI\_10026592

MIASLNTKTDKNCDCQTRSENKTINISGSRNCSLKELSRKKVVDSCPYHYQLNYDRFRIPQSIIQVKCNCDNCIGRKPDGSLQELHDGRCTEVMIPRQVLRLCRKKRRKVYTVRIEEYAVACTCQWPNPNQV

>C.gigas\_EKC33462.1 hypothetical proteinGI\_10015251

MREIILTIGMLMLLPLPTRGRSIPQHFNPAAEWFFLQAIGTAHQCRADFVPALQCPASPLEHSPFDDNEFLGKRSTCPWVMCRDSNSHRQPRDIYYAKCLCTGCKGQSGEYSCQPIYTVVTVSRVTSRGIHDDDSLRVPLGCTCAKNR

>C.gigas\_EKC32654.1 hypothetical protein CGI\_10004922

MNAPVWLTLVLALLTRCCLPHPVSRCRGCHIFDPPFRGLDYSDYDDSERLDTQSICPWSTIMVEDNDRVPRQLPSTTCTKSSVVFQLNGTPVEYACELVEVTVSVLKYHPSGYWERSDELVPVACTAVQRPS

>P.fucata\_pfu\_aug1.0\_1712.1\_51392.t1

MAQQTQGINYSDYAATPTRFHCNSSAFYGITLRPYRISILVALGFTIYLPSICIPCQEPSTYPQIISNLSHESNLISQRRALQNGIGTIPSEFLNVSILEIHQHRRNTRRISNWQKVVQGSTCPWKFVINFDPNRKPSALTEAQCTRQCCNGDECRTTRCEELKYELPVLRRVGCRHGVFVYQQVYETLAAGCTCVYAVDDAFAMPIN

>P.fucata\_pfu\_aug1.0\_1712.1\_51391.t1

MLKFVLYYVCHLPCGARKKAPREGFENFINITYENISNLTTCEDVRTYRITNVMSNHQSIMATCPYFFRRNMDPNRIPYSLTEAKCACQCCGMESRCNRRQSKCREVYRYADVLRRYNDRGHYKRVLEPISIGCSCINPIPRRTLRQRINLEMHMPEK

>P.fucata\_pfu\_aug1.0\_1712.1\_51394.t1

EAFEIILLLILLVNLVLTENNQCNLQQKDLIKNSIYDFHKNVDWLPVILNLSSPKGCIAPRNGTKSKKPTYAHFMRRSCNRTKRGNRLRSRTICPWHYVLDYDPYRMPATIYQAKCTCPGKKRNGCKCKTMKLKLPVLRISVFDGEMEPSVERISVACVCEMRGKNQTS

>P.fucata\_pfu\_aug1.0\_204780.1\_72074.t1

MSFQTSMLLNTVLMMFALINNHNVFAHSSFAIRRIANNMCLLSDEPMEVFFDPIEPLNENAVCPWTIDYDYDPQRIPRKLPIATCLTDKGIIPSTPACNSRNPVVCDQIELDVPVLISHDNFPGVFEEKLKRVSVGCAGRLYPDK

>P.fucata\_pfu\_aug1.0\_20923.1\_18751.t1

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>P.fucata\_pfu\_aug1.0\_24776.1\_26199.t1

FIQGRPQNDQAACPESTTPTRTLTNGIIVFEEAQTGDVPTTTDTNTYIEPKNSEKLCPTQLLNKVSAELKDRSLCPWFTVLNRNQFRVPRIIKEARCRCSKCVVPSSDSFAGDCQCEQIFENIKVLKRTAKCSNGQFVYRLQVERIPVGCACAIRRQAMSSESPA

>P.fucata\_pfu\_aug1.0\_27731.1\_19195.t1

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>P.fucata\_pfu\_aug1.0\_27889.1\_19207.t1

MQMRRIIIVMAYVICILDIIEYVNCSIRRKELVLMEEANYTMNVFRKQSCRASYTSNATFSMITTHNWFGLRHYSRRAKCSWGYRNNTDMSRIPETLVEAFCIQPYCGRSTHSSRCRADCLCQEVDRFVKVVRKDAPFEEDWQALTVGCTCMCDTLTNMHVMPIY

>P.fucata\_pfu\_aug1.0\_32457.1\_48078.t1

MVNVNPNLRRCIESWNESSDFRSQLMQLRNSLHPMDFNARSFGPNLVANSRCNRRAIATPVFQNERSLCPWEIAEDYDENRYPQLLHYARCKCRYCQGGIRFECMPLSYRIPIIERQCNNGVFEYVKTFADLPVGCTCSRPYSIEM

>P.fucata\_pfu\_aug1.0\_8564.1\_24423.t1

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>P.fucata\_pfu\_aug1.0\_8564.1\_24422.t1

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>P.fucata\_JX971444.1\_IL-17

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>D.pulex\_125692

MDTPFLQHNKQKEHIAKQQQSTQPIMVTISIVLYLVILLAALSGLASQSSLKANLKQHSNHHTGKSVKKASSLLNETKRLQRLLDEQFSKFLEQLPFDLSFLQLEENQVKHARYIAKEQDLSAAHSNEDCNKPYELEATVEEFRTCPSQLVAVKRQDRFPNVRLFAKCLCRKCLGNTITSYPYSSSTCLPVKVLMPVLIRSHSSGQQSDAEWKFFLEPVSVSCVCGTKQRPDN

>S.purpuratus\_SPU\_019350.1

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>S.purpuratus\_SPU\_022838.1

MIVAASCIQIAFSSPLQWPSAGAGLSGVPDGQGQTCLADDLEERARRQEVAQSLYPNQRAYAVQSFDDATPDANSDDVPSANCPMDGLGGQDTHPKGMVPSQGRDVSTESTCPFTYVTCYDSDRIPARLTVAQCECSACLDPYTNKEDPELVCQPVYYNIKVLRRKSCKNGMFHYEIVSSGLAMSFVLTLVSSNPYGRFRKDHPDLWAISDTITNERRRAFDPTAEADALHQSFPVTANSLVGANNNCPTTELSSEECPDGANVTHPDHHNENSVCPWTYIHCSDPGRIPEVIAVAQCRCSTCLDPYTHRPDQNLVCQSIMYKMKVLRRTPHASGQYRYHVATEDVPVACACLRKRTSVGRSGADNSSSVVTEVVETLD

>S.purpuratus\_SPU\_030196.1

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>S.purpuratus\_SPU\_030199.1

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>S.purpuratus\_SPU\_030204.1

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>S.purpuratus\_SPU\_030198.1

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>C.intestinalis\_XP\_004227512.1\_interleukin-17D-like

MESITKRTTLFLVIAICVKYSLHAPVNHVTAQVTPYFHDNIVAQINRTLPLQYFHHIKQEKPPRGWARRCEKDTHECPENNISLLRELGTHPSVSKRSTTPWKYVLNQDTNRYPVNIYEACCLCSNCLTVMDGRHIPDVKAAEIKVPIKAAFWNGTGPVVRYIHIAIGCTCVRRRSSMG

>C.intestinalis\_NP\_001123348.1\_interleukin-17-3

MINNTEGSPILDLLQYEEKDGEYELVKKSIPTLDKIKELCGDDEICIRYNEVYAQVLNDTEYASQFTVIDVTNDKSQNGGKKQRTKRSLQCPTFNPASTSVEQRSLSPWTYVIHQDRNRRPSTILQAKCLCYGCYDMDSPTLAENINLVSTPIRYSVRLPKRINGVWVRRPYNIQRGCQCQVPLYM

>C.intestinalis\_NP\_001123346.1\_interleukin-17-2 precursor

MFKLFLLVLFVCVCYGNEVRYRRNEKRCRIPLNSQNRKQCRSIMKQAYVQYSYKLSRFDQSALKNSKMGTSTAKCPTMTESYVINENSPTARSTSPYVTELVYDNKRIPRYLPQSKCLCSGCIASSNGRETLVGKSVPLVAQIKVMRRNKTNSYSVVTEDVTIGCTCVLNV

>C.intestinalis\_NP\_001123347.1\_interleukin-17-1 precursor

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>C.intestinalis\_203738

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>B.floridae\_91950

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>B.floridae\_117645

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>B.floridae\_230778

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>B.floridae\_127768

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>B.floridae\_92872

MVRGVVILLVVASFVDHLRPTQGNPLLPRVDKQGDTTGLLSALGTIRRRHGLRKQGDRPVLVSALGPSPVHPPRHHDRYLSQPPVPVDNPGIERSMCKWRYEDNVDPNRFPSTLKVAVKEYTGSRCRDPATGAPRADLACLPIDYELNVLRKNSEGEWQESYEFVTIGFTCAGSEPR

>B.floridae\_132638

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>B.floridae\_94821

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>B.floridae\_66165

MAKVILLLVASVTVLSGIIEGKTRCRSTMKRSDPGPGGYRVFNRKQLAIITPLLNLREPKRNLNKSLNKRTDAPFRMVTDCNRDRIPRDILVARCREEACDDDASWVKGNTYASKLVVWKVRVNGKLQYHAQREKVPVACTCMRPLVAGPG

>D.rerio\_XP\_002666482.1\_ hypotheticalprotein LOC100329556

MMLVCLLVLLVTGLSSAERYPCSTCNCTAAEFLSVSNHLIYPILNYDVSTTSLSPWTYKCTKDMDRIPMVLCNAVCDQPCWKFSKAAKPAGIKVRISTFRRHPCDNGRYRLSRTQYKLIVGCTCVK

>D.rerio\_NP\_001018634.1\_interleukin-17a/f2 precursor

MFLNFFSAKYLVLLGCALARLTIAQQEQNRLCDTALTISNDFNGSQSEDGKGNGSIHNRSLSAWNWIPKFSPHRIPQVIFEAQCSSEYCILPTGVDKRLNSVPIYQDILVLKQEMERKKCFRAMFEKVIVGCTCVRAKTS

>D.rerio\_NP\_001018625.1\_interleukin-17D precursor

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>D.rerio\_NP\_001018623.1\_interleukin-17a/f1 precursor

MSSALNLRFLMVACMMGLVLISFGAEGASVRSDQKNKNSHPEADHSYRLVLDAEFKASTNPIHPINNDSISPWTYMFTHNESLYPTSIAEAKCSLTGCLIDGVEVQDYESKPIYTQIMVLRRIRGEKPNYSFKLEYKTIAVGCTCVRPYVEQL

>D.rerio\_NP\_001018626.1\_interleukin-17a/f3 precursor

MRLSRVFRAVLLLFLLMLLLDAALSENRTKRKRCSGVKKCTSAGCKSRCQRKTAWVILNSAWDNIMSDTPSPDRSLSPWTYTTSVDESRIPSTISEAKCEKRGCLTKDGEEDLGLESQPIYYQINILRRVKKKNSTFYALKLETKKVSVGCTCVLPIVLPQN

>O.latipes\_NP\_001191715.1\_IL-17A/F-3

MLLVLRALLLLGLLSLEHAKKSQTFPARLKQGPKYRTLKVSLDPSVMPQFYSVSTSNLANSSLSPWTYRENYNSSRLPKSISEAECQTSGCIRDGVEDDALEAKPIQYQILVLYRVQKQQSVGKKKKKKSRKYDFMLGTQVITVGCTCVRPSVITQQ

>O.latipes\_NP\_001191713.1\_IL-17A/F-2

MELPTHSICILMVICCSLRFSSCSDEGVLHPPDCNVTLQFSSEIFSLSRGNGNIHQRSMSPWRWRSTTVRHRIPSTLWEAECDSIFCSNPTSGQPKDYSLNSVPIYQNILVLNHVKGSHCYTASYHLVAVGCTCVWARSNQT

>O.latipes\_NP\_001191714.1\_IL-17A/F-1

MFSATSFCKEMGRGQKAPLALMMMMMMRMMVTEAAAVPKASKTVPLLLDPSALVPTRIIRPLQNVSISPWTYNTSSDSSLLMPALSEARCLLRGCLNLEGKEDLSLESRPIMHQVLVLRRVRAAGHSYDYHLESRLIAVGCTCVKPVVQVQQ

>O.latipes\_NP\_001191716.1\_IL-17D

MTAGSSRICVLLLLLLLHLAALLDASRVRKKASRTRSCLDLPEEILEQMFGRLSVGVMSAFHHALQLKPQDKLNLSCPSTAGTLTASRTRLPVNLLSVSPWAYRSISYDPTRYPRSIPEAYCLCKGCLIGPSGEESRQYRSTPVYSPSVILRRTGSCAGGRHSYSEIYVSVAVGCTCVPLLEKDREPQSRNQTLQRGAPKARRVSAAGHKG

>O.latipes\_NP\_001191723.1\_IL-17C

MRLNQILIGTVCLVALCACKKCVSVDDLKKIEEKAMRKHGIGIWQHSISSPSSDATGCPVDLYQNWDSKDEKRSVSPWKYTEVTREGYFPPSYMEAQCLCKGCILKEGNNVIESHNFNSKPLVVSRMFLRRVLCEGGNNGTAKTYKLERVQLDVAVGCICVRTRS

>O.latipes\_NP\_001191717.1\_IL-17N

MEQLQLLQVLLLCLLGLQRGAATPLSTQCVEESFCTFNLQDVHGQLVNLPSHVNERSIPTWSYVENIDLNRVPQVIHEASCHSSHACPGLDSGYSLETVPVSLRMPVLKKNPACFSTTGYSVDYELITVACLCVISRHN

>T.rubripes\_BAI82582.2\_interleukin-17C-2

MTISLGSLLLFGERPLCAGGSQCVSEDEANQRLERFHKNRPTPTFTDHQTTCEKVRQLFEDVAPQLKGEHMRQRSVSPWRYRIDHNINRSPADIAMAECLCKGCILEQKETHDYNSVSVTTHIKVLYKNPCPDDPGKYLMKHEYFKVSVGCICVEPKRSS

>T.rubripes\_BAI82581.2\_interleukin-17C-1

MKQFLTFVLLLVSACTGESNRCYDEHELSEAANRKLRSHYPQPAEPSPAAAADSSYTCPLELYLQKDLPPHLSGRTVPLGDSFPSSYTEAQCLCSGCILVPDSPQNQVLLTETHDYNSVPIKQNRVFLRKELCADGKKHHLKPVTIQVAVGCTCVRPKTTS

>T.rubripes\_BAI82580.1\_interleukin-17A/F-3

MQVVSGTLLLLGLLALLHAARNVKSRQQSRPKGRRLRLEIDPSVWPELSSMTAPSLANRSLSPWTYTGSSEESRFPRWIYSAQCLTASCLSLRGEGEDAALEAAPIYYPTLVLHRVPKQRKANKKKGRSSREKYEFQLRTAVVSVGCTCVRPTVIPQQ

>T.rubripes\_BAI82579.1\_interleukin-17A/F-2

MVLRSCSVVALLISCSALWGFSHSSRPKPPPPSPKCDAMVAFSSQTSSLSEGAGAIHSRSLSPWRWRSTTVKNRIPTTLWEAECTSRFSSGPRLGQPEVHNLNSVPIYQNILVLTRQNNSHCYTASFQLVAVGCTSVRATISHS

>T.rubripes\_BAI82578.1\_interleukin-17A/F-1

MGHSKATMTVGMLAVMMMVAALAAALPRPGGHLKRSVKANKKSPAVMETVPLQLDPKNLVVTQNIRPLENVSISPWTYNISRDASLFPPLAEARCLFRGCLDSEGQEDQSLESKPIMRQVLLLRKVSSEEGAGHSYHFRLESRLVAVGCTCIRPVVLHHQ

>T.rubripes\_BAI82584.1\_interleukin-17N

MEQLQLVRVFLLCALALHGCVAMPFTDHCVDESFCTYSLQDYHTQLVELPSHINQRSIASWTYVENIDLNRVPQVIHEASCHTRHSCNGLENTFGLETIPVSLRMPVLKKNPNCFPTSSYSLDFELITIACICAFSRNS

>G.gallus\_XP\_003641993.2\_interleukin-17C

MGWLGALALLSAVVLCRCLRRPAVPTHHHPHVRCYSSGELRDGEAPAHLLGRSLRWEQHVPVQLVPQIEAAQRRRRRREHSCPALQLRAGLRSEPHERSISPWRYRIDEDEDRYPRKLAFAECLCTGCVDVKTGRETTALNSVPIHQTMMVLRRKPCPRPSSPGLITFDVDYIRVPVGCTCVLPRTGR

>G.gallus\_XP\_426223.4\_interleukin-17F

MAFASCAAVFRSLLLVLVLTLTVWSSPHGKVVRPRPRKDGGSEKLSEDCLNQKDPSFPTMVKVDIRIGSSDPASRMIHDIRNRSLAPWNYRLDEDPNRFPQVIADAECRLLGCLNSLGQEDRSLNSVPITQEILVLRREQRGCQPTYHLEKKLITVGCTCAAPVIQHQS

>G.gallus\_NP\_989791.1\_interleukin-17F precursor

MSPIPYSPLFRPLLLVLLAMLSASISAHGKVIRPGLEPESLFKKADAGCLTQKDGKFPQTVRVNISISNMNQDTKVTLDISKRSLAPWDYRIDEDHNRFPRLVADAQCRHSRCVNSAGQLDHSVNSVPIKQEILVLRREPKGCQHSYRLEKKMITVGCTCVTPLIQHQA

>G.gallus\_XP\_004944893.1\_interleukin-17B isoform X4

MERAPNLLLLCIFTFAMVLVPEAKDESRAAKGRRRGPSRLPTAASALAWAPDDPYTPMEDYERSIQDMVHQLRNGSEPGDTKCQVNLRLWRSNRRSLSPWAYRCSGDHSSSISKQPRCSAPHVAPQWYCPAPSPPRCPHPTCHSHRPPNLPLLSLSSSINHDATRIPADIPEARCLCTGCINPFTMQEDRTMASIPIYSRLPVRRLLCQAPGKVGHKASGRKKCHKKYQTVMETIAVGCTCIF

>X.tropicalis\_NP\_001107719.1\_interleukin-17D precursor

MMLLFGILIASCNGSKPVKRPPPKPKSCADRPEEHLEQVYGRLAAGMLSAYHHTLQLQPLDKENISCPAGTQGRGAGDGKQRLPVNIHSISPWAYRISYNPTRYPKYIPEAYCLCKGCLTGLLGEEDLNFRSMPVYMPTVILRRTTSCAGGRYVYEEEYITIPVGCTCVPEQEKGAELLESVNSSLEKEKFKLPLNKSEKPLAN

>X.tropicalis\_XP\_004915038.1\_interleukin-17A-like

MSEQQASMLLVTLVLFMAGSAFSKKCPLTKEMFSFPQNIKLSLNFSSTGQENPRSGETHMRSISPWNYSINMDKNRFPSVINEAVCVHNGCLDAEGNVDISLRSAPIQQTILVLRREVRGCSTSFWLEKQTVTVGCTCIRKEILLRPHSMEPNPTGSLYS

>X.tropicalis\_XP\_002942041.2\_interleukin-17C

MNNLCATWLLGLFLCVSMLITGASTRKHPHRHHQHPFCFTNDELEVSFKDIVHQAAGKNMYWDHYQAVHLVKTLEETESRRKRKRRGEPENGCPNLKASTPSGNGRSDLGQRSISPWSYRIDFDENRYPQKLAFAQCLCKGCINAETGKDDASLNSVSVEQTMLVLRKTRCSENSSRYMFELDYIKVPVACTCVIPRN

>X.tropicalis\_XP\_002932904.1\_interleukin-17D-like

MKLLLSLLLALTLASCQGNQIKCKDPSEEYLKNKLFRHAPDAQILLFKPDISPDQELRTCPKSVNHSSTLIQERSISPWSYRINENVNRYPKQILEAYCLCKGCISSHNKGQTTVVSVPFDKEVPVLHKTPKCKKGRFVYKLRFIRIAQLCICRFH

>X.tropicalis\_XP\_004915036.1\_interleukin-17F

MTMGKSYSGMNTYTLAYRGEIKVGYKQEKGKKVLFDCHVTLLLFILGVSTTLSVHGLDLHHLSKGCPPPRGLNLNQPIKVTLNISGQSQALGKDISKRSLAPWDYSFDMDNNRFPSMIAEAKCRYAHCLDAEGNLDLDVNTVPIKQEILVLRREMKGCTPSFKLEKKMVTVGCTCVRPEVKEQQQ

>X.tropicalis\_NP\_001006699.1\_interleukin-17B precursor

MFGSHRLFLLIATSLLVAHALSSDTPNPSKGRKKGHLKGKNTHGTAQDRAKGKASPDPVLGGNSFAPSQLYSLVEDYEQSLMEMVNQLRNNSDVSANRCEVSLRLWLSNRRSLSPWAYSINHDENRIPIDIPEARCLCTGCVNPFTMKEDFSMTSIPIYSKIPVRRRLCEGSSSPIRARRRKKCHKEYMAVMENIAVGCTCIF

>X.tropicalis\_XP\_004915037.1\_interleukin-17A-like

MPNVWMPKVSITLLGINTMTSAHPHVPQGDCQLPADASFPAVVRASIRSGGQIQSLRMEMRNRSLSPWDYVNDQDNNRYPNIIYEAKCRHAGCLDSQGNMDARVNSIPIRQEILVLRREMIGCTPSFRLEKKMVTVGCTCARPIVQHLI

>H.sapiens\_NP\_612141.1\_interleukin-17D precursor

MLVAGFLLALPPSWAAGAPRAGRRPARPRGCADRPEELLEQLYGRLAAGVLSAFHHTLQLGPREQARNASCPAGGRPADRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGEEDVRFRSAPVYMPTVVLRRTPACAGGRSVYTEAYVTIPVGCTCVPEPEKDADSINSSIDKQGAKLLLGPNDAPAGP

>H.sapiens\_NP\_443104.1\_interleukin-17F precursor

MTVKTLHGPAMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMSRNIESRSTSPWNYTVTWDPNRYPSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQLEKVLVTVGCTCVTPVIHHVQ

>H.sapiens\_NP\_055258.1\_interleukin-17B precursor

MDWPHNLLFLLTISIFLGLGQPRSPKSKRKGQGRPGPLAPGPHQVPLDLVSRMKPYARMEEYERNIEEMVAQLRNSSELAQRKCEVNLQLWMSNKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFTMQEDRSMVSVPVFSQVPVRRRLCPPPPRTGPCRQRAVMETIAVGCTCIF

>H.sapiens\_NP\_002181.1\_interleukin-17A precursor

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTPIVHHVA

>H.sapiens\_NP\_037410.1\_interleukin-17C precursor

MTLLPGLLFLTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGRETAALNSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPRSV

>H.sapiens\_NP\_073626.1\_interleukin-25 isoform 1 precursor

MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG

2) Some IL17 protein sequences that contain incomplete IL-17 domains

>C.elegans\_CDH93392.1 Protein C44B12.6 isoform a

MHEAFSRLINRRDEDMFSFFQPDSQIFLEYQPLHRHMLTPKSRDCSEPSIDKSSEVLPDQPLSERSICPYHHILNYDEKRIPAAISEVECSCPHVKVHGGIIHCEPMMYNMRVMLFDDSCDKYVERVQKVALACVPVFSNHISSGTHSHSLPTPPSTPL

>P.fucata\_pfu\_aug1.0\_8548.1\_09780.t1

MNLTHPDPLEYLLLPDSNQNKNYIPAPVERPSFINGIKDCPNSQTNLNVTVTTPLSERATCPFYFVSTFDARRYPQHITEARCSCSHCLEYHGLSSRTRCEPVYRDVKLLVKTECHNSVWQYSVGIYKMQESCTCAVPRQIRNQQTGNKISNSGEPIPM

>S.purpuratus\_SPU\_030197.1

MASTMKVQRFITICLIYAPLLSAFVVKYEDMAIESIISQTEKSEADRLPEVFSKNNTESSMASLVTENIANIERHEAHQPIKTANGDVHTALKRSACREPSGADLEVQLQLFRSGFVTTEEPTGAFGAGVDSLESIRDSGFPVYWEGEDCRTAPSDLWTIFPTTSLNGRTACPWRLVQNSKPNRYPRDIQYAQCACTKCAEIPLDSFSIANSCRPVLRDEHVLNRTDQCVDGEYVSNGTQIISPPHTAFSMGYVYSRGFKIMNCFRCKIYLNAINPLLTGTGGRRVKKGDMEVIKNGMGY