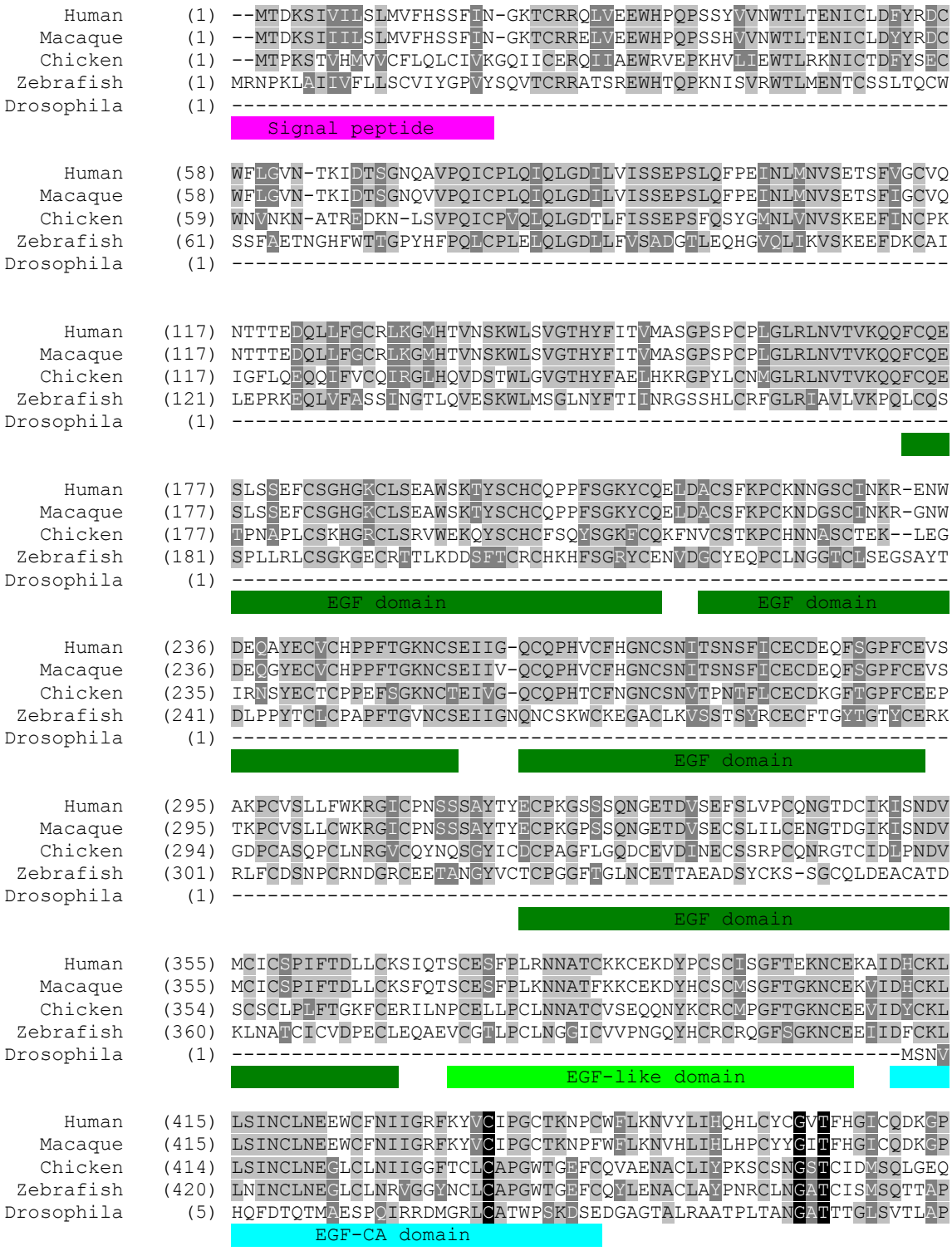
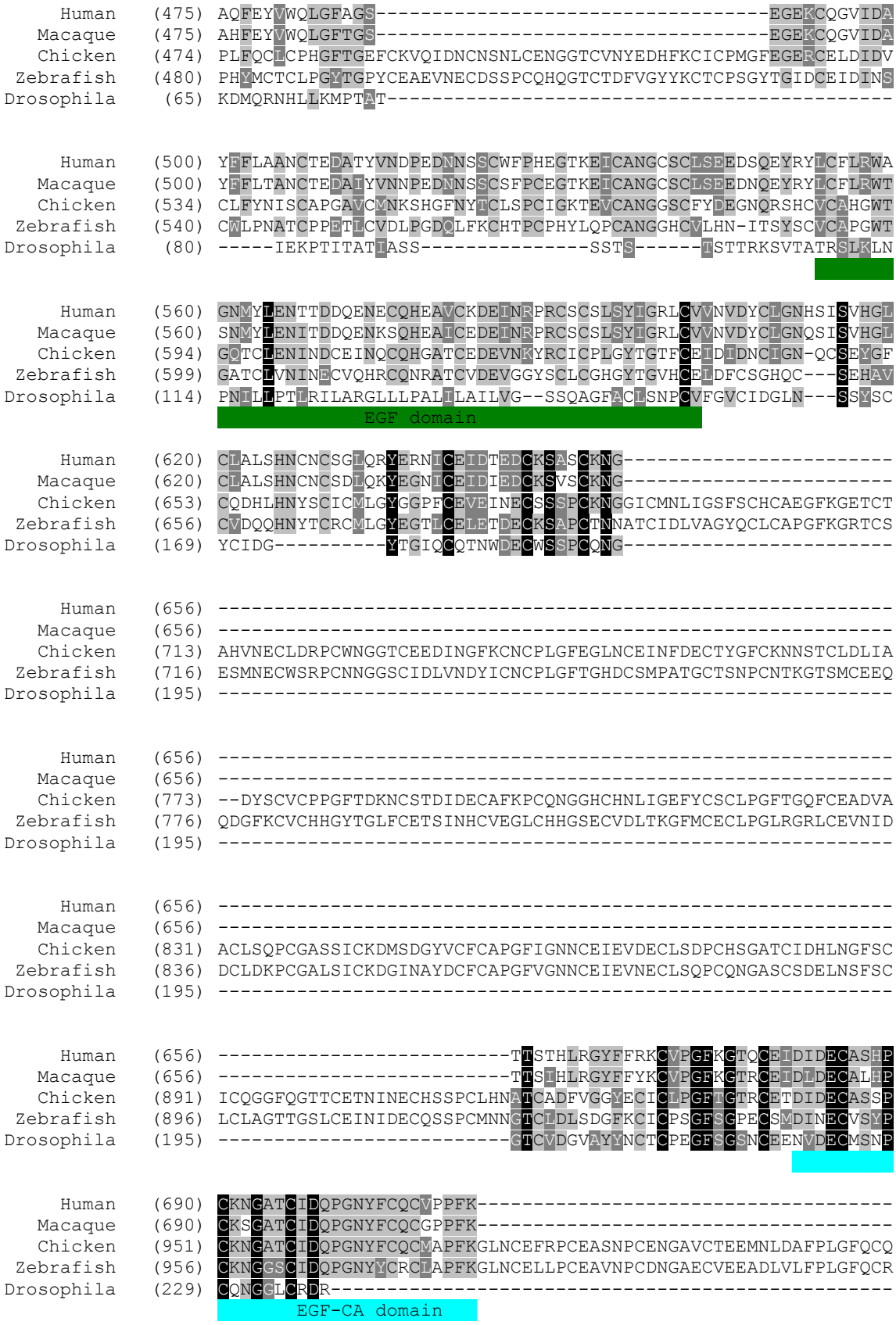
S2 Fig. Multiple sequence alignment of EYS protein in different species

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Macaque (475) AHFEYVWQLGFTGS----------EGEKCQGVIDA
Chicken (474) PLFQCLCPHGFTGEFCKVQIDNCNSNLCENGGTCVNYEDHFKCICPMGFEGERCELDIDV
Zebrafish (480) PHYMCTCLPGYTGPYCEAEVNECDSSPCQHQGTCTDFVGYYKCTCPSGYTGIDCEIDINS
Drosophila (65) KDMQRNHLLKMPTAT----------
Human (500) YFFLAANCTEDATYVNDPEDNNSSCWFPHEGTKEICANGCSCLSEEDSQEYRYLCFLRWA
Macaque (500) YFFLTANCTEDAIYVNNPEDNNSSCSFPCEGTKEICANGCSCLSEEDNQEYRYLCFLRWT
Chicken (534) CLFYNISCAPGAVCVNKSHGFNYTCLSPCIGKTEVCANGGSCFYDEGNQRSHCVCAHGWT
Zebrafish (540) CWLPNATCPPETLCVDLPGDQLFKCHTPCPHYLQPCANGGHCVLHN-ITSYSCVCAPGWT
Drosophila (80) -----IEKPTITATIASS----------SSTS------TSTTRKSVTATRSLKLN
Human (560) GNMYLENTTDDQENECQHEAVCKDEINRPRCSCSLSYIGRLCVVNVDYCLGNHSISVHGL
Macaque (560) SNMYLENITDDQENKSQHEAICEDEINRPRCSCSLSYIGRLCVVNVDYCLGNQSISVHGL
Chicken (594) GQTCLENINDCEINQCQHGATCEDEVNKYRCICPLGYTGTFCEIDIDNCIGN-QCSEYGF
Zebrafish (599) GATCLVNINECVQHRCQNRATCVDEVGGYSCLCGHGYTGVHCELDFCSGHQC---SEHAV
Drosophila (114) PNILLPTLRILARGLLLPALILAILVG--SSQAGFACLSNPCVFGVCIDGLN---SSYSC
EGF domain
Human (620) CLALSHNCNCSGLQRYERNICEIDTEDCKSASCKNG----------
Macaque (620) CLALSHNCNCSDLQKYEGNICEIDIEDCKSVSCKNG----------
Chicken (653) CQDHLHNYSCICMLGYGGPFCEVEINECSSSPCKNGGICMNLIGSFSCHCAEGFKGETCT
Zebrafish (656) CVDQQHNYTCRCMLGYEGTLCELETDECKSAPCTNNATCIDLVAGYQCLCAPGFKGRTCS
Drosophila (169) YCIDG----------YTGIQCQTNWDECWSSPCQNG----------
Human (656) ----------
Macaque (656) ----------
Chicken (713) AHVNECLDRPCWNGGTCEEDINGFKCNCPLGFEGLNCEINFDECTYGFCKNNSTCLDLIA
Zebrafish (716) ESMNECWSRPCNNGGSCIDLVNDYICNCPLGFTGHDCSMPATGCTSNPCNTKGTSMCEEQ
Drosophila (195) ----------
Human (656) ----------
Macaque (656) ----------
Chicken (773) --DYSCVCPPGFTDKNCSTDIDECAFKPCQNGGHCHNLIGEFYCSCLPGFTGQFCEADVA
Zebrafish (776) QDGFKCVCHHGYTGLFCETSINHCVEGLCHHGSECVDLTKGFMCECLPGLRGRLCEVNID
Drosophila (195) ----------
Human (656) ----------
Macaque (656) ----------
Chicken (831) ACLSQPCGASSICKDMSDGYVCFCAPGFIGNNCEIEVDECLSDPCHSGATCIDHLNGFSC
Zebrafish (836) DCLDKPCGALSICKDGINAYDCFCAPGFVGNNCEIEVNECLSQPCQNGASCSDELNSFSC
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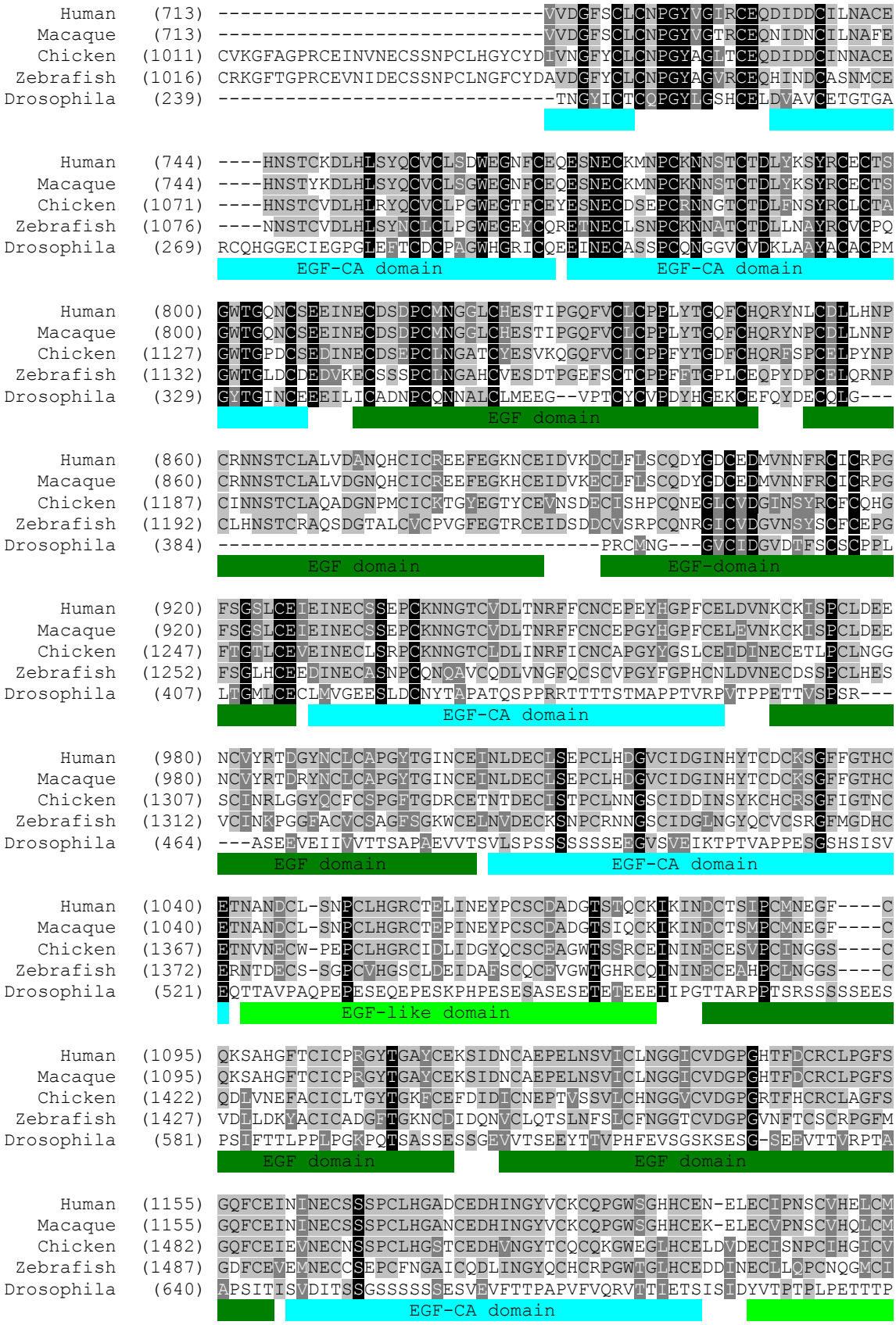
Macaque (656) ----------TTSIHLRGYFFYKCVPGEKGTRCEIDLDECALHP
Chicken (891) ICQGGFQGTTCETNINECHSSPCLHNATCADFVGGYECICLPGFTGTRCETDIDECASSP
Zebrafish (896) LCLAGTTGSLCEINIDECQSSPCMNNGTCLDLSDGFKCICPSGFSGPECSMDINECVSYP
Drosophila (195) ----------GTCVDGVAYYNCTCPEGFSGSNCEENVDECMSNP
Human (690) CKNGATCIDQPGNYFCQCVPPFK----------
Macaque (690) CKSGATCIDQPGNYFCQCGPPFK----------
Chicken (951) CKNGATCIDQPGNYFCQCVAPFKGLNCEFRPCEASNPCENGAVCTEEMNLDAFPLGFQCQ
Zebrafish (956) CKNGGSCIDQPGNYYCRCLAPFKGLNCELLPCEAVNPCDNGAECVEEADLVLFPLGFQCR
Drosophila (229) CQNGGLCRDR----------
EGF-CA domain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Chicken (1011)
Zebrafish (1016)
Drosophila (239)
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EGF-CA domain
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Macaque (744)
Chicken (1071)
Zebrafish (1076)
Drosophila (269)
EGF-CA domain
EGF-CA domain
Human (800)
Macaque (800)
Chicken (1127)
Zebrafish (1132)
Drosophila (329)
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Macaque (860)
Chicken (1187)
Zebrafish (1192)
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EGF-domain
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Macaque (920)
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Zebrafish (1252)
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EGF-CA domain
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Human (1095)
Macaque (1095)
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EGF domain
EGF domain
Human (1155)
Macaque (1155)
Chicken (1482)
Zebrafish (1487)
Drosophila (640)
EGF-CA domain

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   Macaque  (1214) ENEP--GSTCLCTPGFMTCSIGLLCGDEIRRITCLTPSFQRTDPISTQTHTVPPSETLVS
   Chicken  (1542) QSDPSFGYSCFCKPGFVGRSCELNYNDCLIQSCSSGFLCVDGINNITCLPTISQS-----
 Zebrafish  (1547) QNEPGHGYTCFCRPGFVGENCEYNYDDCLIQSCPETFSCKDGINNVSCVPVKTDISSLP-
Drosophila   (700) RVVPVPRPTFAPEPPLDVVETTASTHHLWTEVPTTAAPFFTEYPAEVLITTHRTSAG---
                        EGF-like domain

     Human  (1272) SFPSIKATRIPAIMDTYPVDQGPKQTGIVKHDILPTTGLATLRISTPLESYLLQELIVTR
   Macaque  (1272) SFPSIKATRIPTIMDTYPVDQGPKQTGIVKHDILPTTGLATLRISTPLKSYLLEELIVTR
   Chicken  (1597) -----KKTEMAEIFPTESLDN----------------------------DLPSALAVSM
 Zebrafish  (1606) ---------------------------------------------PISVVSWRSTDIST
Drosophila   (757) ---------------------------------------------RFTTVQPPAGVTT

     Human  (1332) ELSAKHSLLSSADVSSSRFLNFGIRDPAQIVQDKTSVSHMPIRTSAATLGFFFPDRRART
   Macaque  (1332) ELSAKHSLLSSTDVSSSPFLNFGIHDPAQIVQDKTSVSHMRIRTSAATLGFFFPDRRART
   Chicken  (1623) ELWSKHAIP-------------------------------------------------
 Zebrafish  (1620) ELQPTFAPVEN------------------------------------------------
Drosophila   (770) TSPTEDSSVELP-----------------------------------------------

     Human  (1392) PFIMSSLMSDFIFPTQSLLFENCQTVALSATPTTSVIRSIPGADIELNRQSLLSRGFLLI
   Macaque  (1392) SFIRSSLMSDFIFPTQSLLFENYQTVASSATPTTSVIRSIPGADIELNRHSLLSRGFLLT
   Chicken  (1632) ----------------------------------------------------------
 Zebrafish  (1631) ----------------------------------------------------------
Drosophila   (782) ----------------------------------------------------------

     Human  (1452) AASISATPVVSRGAQEDIEEYSADSLISRREHWRLLSPSMSPIFPAKVIISKQVTILNSS
   Macaque  (1452) AASISATPVVSRGAQEDIKEYSAVSLISRREHWRSLISSMSPIFPAKKIISKQVTILNSS
   Chicken  (1632) ----------------------------------------------------------
 Zebrafish  (1631) ----------------------------------------------------------
Drosophila   (782) ----------------------------------------------------------

     Human  (1512) ALHRFSTKAFNPSEYQAITEASSNQRLTNIKSQAADSLRELSQTCATCSMTEIKSSREFS
   Macaque  (1512) ALHRFGTKAFIPSEYQAITEASSNQRLTNIKSQAADSLRELSQTCATCSMTEIKSSHEFS
   Chicken  (1632) ----------------------------------------------D---FHTEEVA
 Zebrafish  (1631) ----------------------------------------------LQHTEQPA
Drosophila   (782) ----------------------------------------------TPHTPQIV

     Human  (1572) DQVLHSKQSHFYETFWMNSAILASWYALMGAQTITSGHSFSSATEITPSVAFTEVPSLFP
   Macaque  (1572) DQVLHSKQSHFYETFWMNSAILASWYALMGAQTITSGHSFSSATEITPSVAFTEVPSLFP
   Chicken  (1640) --QDFS------------------------------------------------------
 Zebrafish  (1639) DASFGG----------------------------------------------------
Drosophila   (790) VTILDSN---------------------------------------------------

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   Macaque  (1632) SKKSAKRTILSSSLEESITLSSNLDVNLCLHKTCLSIVPSQTISSDLMNSDLTSELTTDE
   Chicken  (1644) ----------------------------------------------------------
 Zebrafish  (1645) ----------------------------------------------------------
Drosophila   (797) ----------------------------------------------------------

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   Macaque  (1692) LSVSENILKLLKIRQYGITTGPTEVLNQDSLLDMEKSKGSHTPFKLHPSDSSLDLELNLR
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 Zebrafish  (1645) ----------------------------------------------------------
Drosophila   (797) ----------------------------------------------------------
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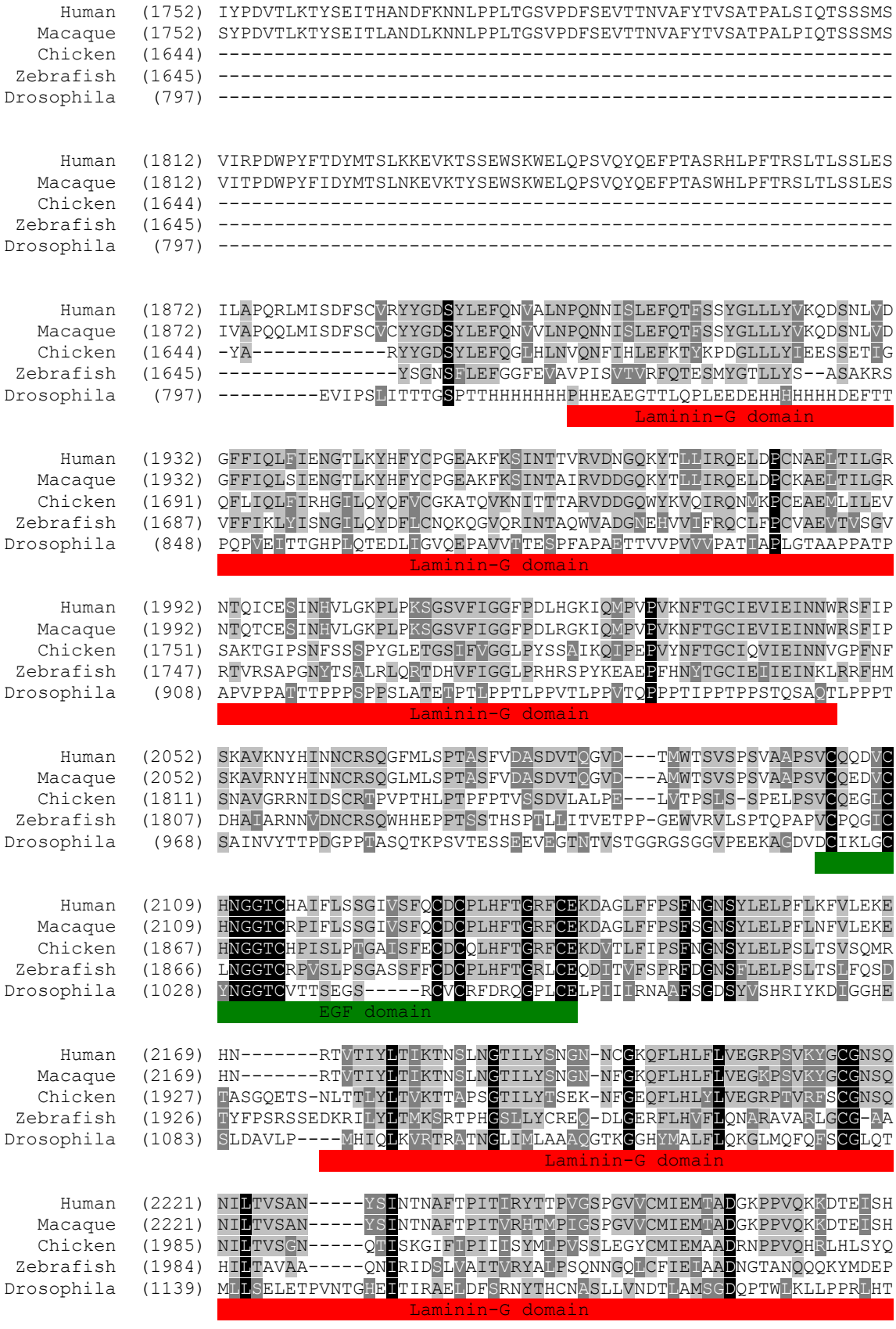
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Chicken (1644)
Zebrafish (1645)
Drosophila (797)
Human (1812) VIRPDWPYFTDYMTSLKKEVKTSSEWSKWELQPSVQYQEFPTASRHLPFTRSLTLSSLES
Macaque (1812) VITPDWPYFIDYMTSLNKEVKTYSEWSKWELQPSVQYQEFPTASWHLPFTRSLTLSSLES
Chicken (1644)
Zebrafish (1645)
Drosophila (797)
Human (1872) ILAPQRLMISDFSCVRYYGDSYLEFQNVALNPQNNISLEFQTESSYGLLLYVKQDSNLVD
Macaque (1872) IVAPQQLMISDFSCVCYYGDSYLEFQNVVLNPQNNISLEFQTESSYGLLLYVKQDSNLVD
Chicken (1644) -YA----------RYYGDSYLEFQGLHLNVQNFIHLEFKTYKPDGLLLYIEESSETIG
Zebrafish (1645) ----------YSGNSFLEFGGFEVAVPISVTVRFQTESMYGTLLYS--ASAKRS
Drosophila (797) ---------EVIPSLITTTGSPTTHHHHHHHPHHEAEGTTLQPLEEDEHHHHHHDEFTT
Laminin-G domain
Human (1932) GFFIQLFIENGTLKYHFYCPGEAKFKSINTTVRVDNGQKYTLIIRQELDPCNAELTILGR
Macaque (1932) GFFIQLSIENGTLKYHFYCPGEAKFKSINTAIRVDDGQKYTLIIRQELDPCKAELTILGR
Chicken (1691) QFLIQLFIRHGILQYQFVCGKATQVKNITTTARVDDGQWYKVQIRQNMKPCEAEMLILEV
Zebrafish (1687) VFFIKLYISNGILQYDFLCNQKQGVQRINTAQWVADGNEHVVIFRQCLFPCVAEVTVSGV
Drosophila (848) PQPVEITTGHPLQTEDLIGVQEPAVVTTESPFAPAETTVVPVVVPATIAPLGTAAPPATP
Laminin-G domain
Human (1992) NTQICESINHVLGKPLPKSGSVFIGGFPDLHGKIQMPVPVKNFTGCIEVIEINNWRSFIP
Macaque (1992) NTQTCESINHVLGKPLPKSGSVFIGGFPDLRGKIQMPVPVKNFTGCIEVIEINNWRSFIP
Chicken (1751) SAKTGIPSNFSSSPYGLETGSIFVGGLPYSSAIKQIPEPVYNFTGCIQVIEINNVGPFNF
Zebrafish (1747) RTVRSAPGNYTSALRLQRTDHVFIGGLPRHRSPYKEAEPFHNYTGCIEIIEINKLRRFHM
Drosophila (908) APVPPATTTPPPSPPSLATETPTLPPTLPPVTLPPVTQPPPTIPPTPPSTQSAQTLPPPT
Laminin-G domain
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Chicken (1811) SNAVGRRNIDSCRTPVPTHLPTPFPTVSSDVLALPE---LVTPSLS-SPELPSVCQEGLC
Zebrafish (1807) DHAIARNNVDNCRSQWHHEPPTSSTHSPTLLITVETPP-GEWVRVLSPTQPAPVCPQGIC
Drosophila (968) SAINVYTTPDGPPTASQTKPSVTESSEEVEGTNTVSTGGRGSGGVPEEKACDVDCIKLGC
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Macaque (2109) HNGGTCRPIFLSSGIVSFQCDCPLHFTGRFCEKDAGLFFPSFSGNSYLELPFLNFVLEKE
Chicken (1867) HNGGTCHPISLPTGAISFECDCQLHFTGRFCEKDVTLFIPSFNGNSYLELPSLTSVSQMR
Zebrafish (1866) LNGGTCRPVSLPSGASSFFCDCPLHFTGRLCEQDITVFSPRFDGNSFLELPSLTSLFQSD
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EGF domain
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Macaque (2169) HN-------RTVTIYLTIKTNSLNGTILYSNGN-NFGKQFLHLFLVEGKPSVKYGCGNSQ
Chicken (1927) TASGQETS-NLTTLYLTVKTTAPSGTILYTSEK-NFGEQFLHLYLVEGRPTVRFSCGNSQ
Zebrafish (1926) TYFPSRSSEDKRILYLTMKSRTPHGSLLYCREQ-DLGERFLHVFLQNARAVARLGCG-AA
Drosophila (1083) SLDAVLP----MHIQLKVRTRATNGLIMLAAAQGTKGGHYMALFLQKGLMQFQFSCGLQT
Laminin-G domain
Human (2221) NILTVSAN-----YSINTNAFTPITIRYTTPVGSPGVVCMIEMTADGKPPVQKKDTEISH
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Chicken (1985) NILTVSCN-----QIISKGIFIPIIISYMLPVSSLEGYCMIEMAADRNPPVQHRLHLSYQ
Zebrafish (1984) HILTAVAA-----QNIRIDSLVAITVRYALPSQNNGQLCFIEIAADNGTANQQQKYMDEP
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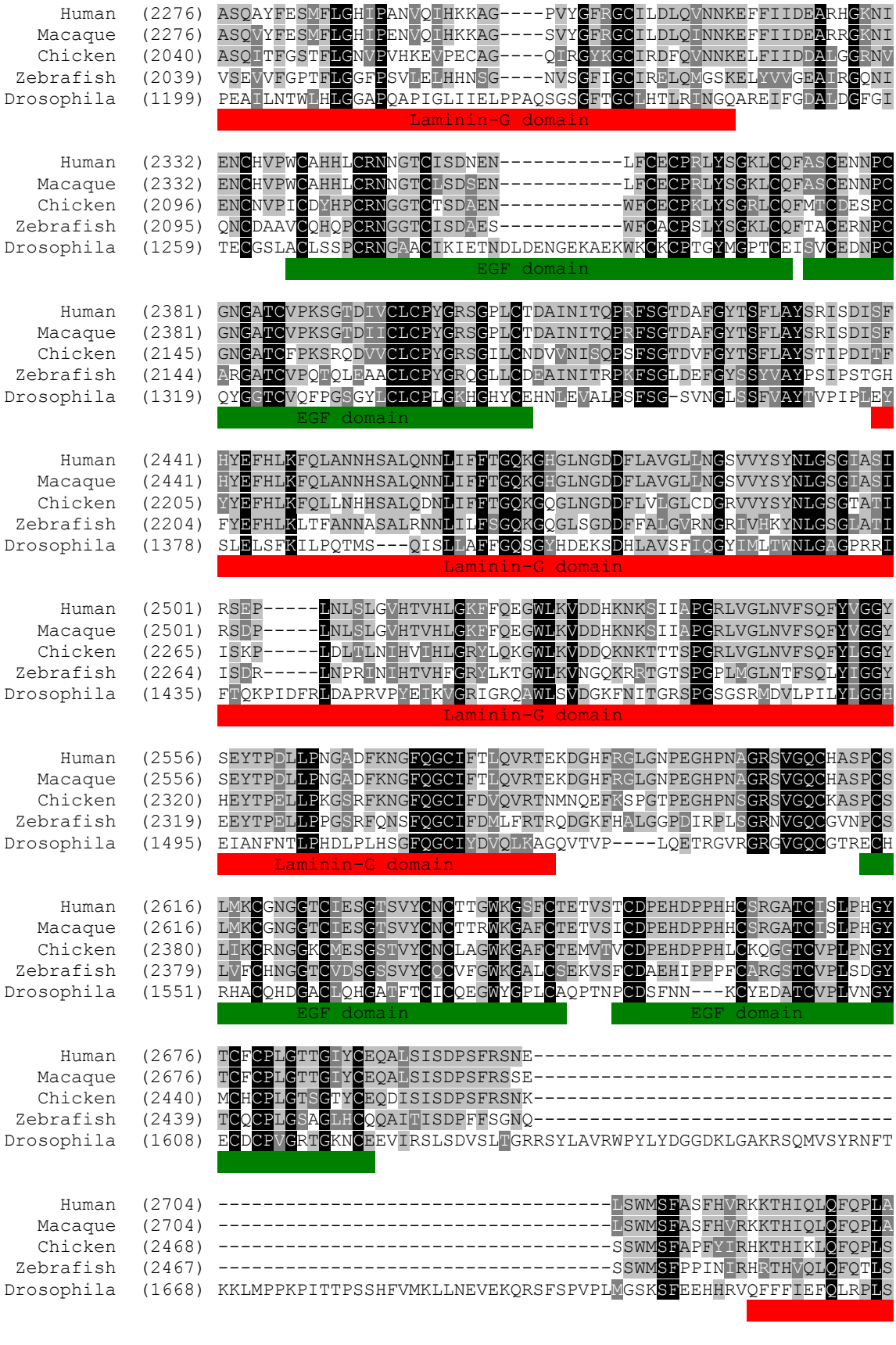
Laminin-G domain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Chicken (2040) ASQITFGSTFLGNVPVHKEVPECAG----QIRGYKGCIRDFQVNNKELFIIDDALGGRNV
Zebrafish (2039) VSEVVFGPTFLGGFPSVLELHHNSG----NVSGFIGCIRELQMGSKELYVVGEAIRGQNI
Drosophila (1199) PEAILNTWLHLGGAPQAPIGLIIELPPAQSGSGFTGCLHTLRINGQAREIFGDALDGFGI
Laminin-G domain
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Macaque (2332) ENCHVPWCAHHLCRNNGTCLSDSEN-----------LFCECPPRLYSGKLCQFASCENNPC
Chicken (2096) ENCNVPICDYHPCRNGGTCTSDAEN-----------WFCECPKLYSGRLCQFMICDESPC
Zebrafish (2095) QNCDAAVCQHQPCRNGGTCISDAES-----------WFCACPSLYSGKLCQFTACERNPC
Drosophila (1259) TECGSLACLSSPCRNGAACIKIETNDLDENGEKAEKWKCKCPTGYMGPTCEISVCEDNPC
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Chicken (2145) GNGATCFPKSRQDVVCLCPYGRSGILCNDVVNISQPSFSGTDVFGYTSFLAYSTIPDITF
Zebrafish (2144) ARGATCVPQTQLEAACLCPYGRQGLLCDEAINITRPKFSGLDEFGYSSYVAYPSIPSTGH
Drosophila (1319) QYGGTCVQFPGSGYLCLCPLGKHGHYCEHNLEVALPSFSG-SVNGLSSFVAYTVPIPLEY
EGF domain
Human (2441) HYEFHLKFQLANNHSALQNNLIFFTGQKGHGLNGDDFLAVGLINGSVVYSYNLGSGIASI
Macaque (2441) HYEFHLKFQLANNHSALQNNLIFFTGQKGHGLNGDDFLAVGLINGSVVYSYNLGSGIASI
Chicken (2205) YYEFHLKFQLLNHHSALQDNLIFFTGQKGQGLNGDDFLVLGLCDGRVVYSYNLGSGTATI
Zebrafish (2204) FYEFHLKLTFANNASALRNNLILFSGQKGQGLSGDDFFALGVRNGRIVHKYNLGSGLATI
Drosophila (1378) SLELSFKILPQTMS---QISLLAFFGQSGYHDEKSDHLAVSFIQGYIMLTWNLGAGPRRI
Laminin-G domain
Human (2501) RSEP-----LNLSLGVHTVHLGKFFQEGWLKVDDHKNKSIIAPGRLVGLNVFSQFYVGGY
Macaque (2501) RSDP-----LNLSLGVHTVHLGKFFQEGWLKVDDHKNKSIIAPGRLVGLNVFSQFYVGGY
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Zebrafish (2264) ISDR-----LNPRINIHTVHFGRYLKTGWLKVNGQKRRTGTSPGPLMGLNTFSQLYIGGY
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Macaque (2556) SEYTPDLLPNGADFKNGFQGCIFTLQVRTEKDGHFRGLGNPEGHPNAGRSVGQCHASPCS
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Zebrafish (2319) EEYTPELLPPGSRFQNSFQGCIFDMLFRTRQDGKFHALGGPDIRPLSGRNVGQCGVNPCS
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Zebrafish (2379) LVFCHNGGTCVDSGSSVYCQCVFGWKGALCSEKVSFCDAEHIPPPFCARGSTCVPLSDGY
Drosophila (1551) RHACQHDGACIQHGATFTCICQEGWYGPLCAQPTNPCDSFNN---KCYEDATCVPLVNGY
EGF domain
EGF domain
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Macaque (2676) TCFCPLGTTGIYCEQALSISDPSFRSSE--------------------------------
Chicken (2440) MCHCPLGTSGTYCEQDISISDPSFRSNK--------------------------------
Zebrafish (2439) TCQCPLGSAGLHCQQAITISDPFFSGNQ--------------------------------
Drosophila (1608) ECDCPVGRTGKNCEEVIRSLSDVSLTGRRSYLAVRWPYLYDGGDKLGAKRSQMVSYRNFT
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Macaque (2704) ----------------------------------LSWMSFASFHVRKKTHIQLQFQPLA
Chicken (2468) ----------------------------------SSWMSFAPFYIRHKTHIKLQFQPLS
Zebrafish (2467) ----------------------------------SSWMSFPPINIRHRTHVQLQFQTLS
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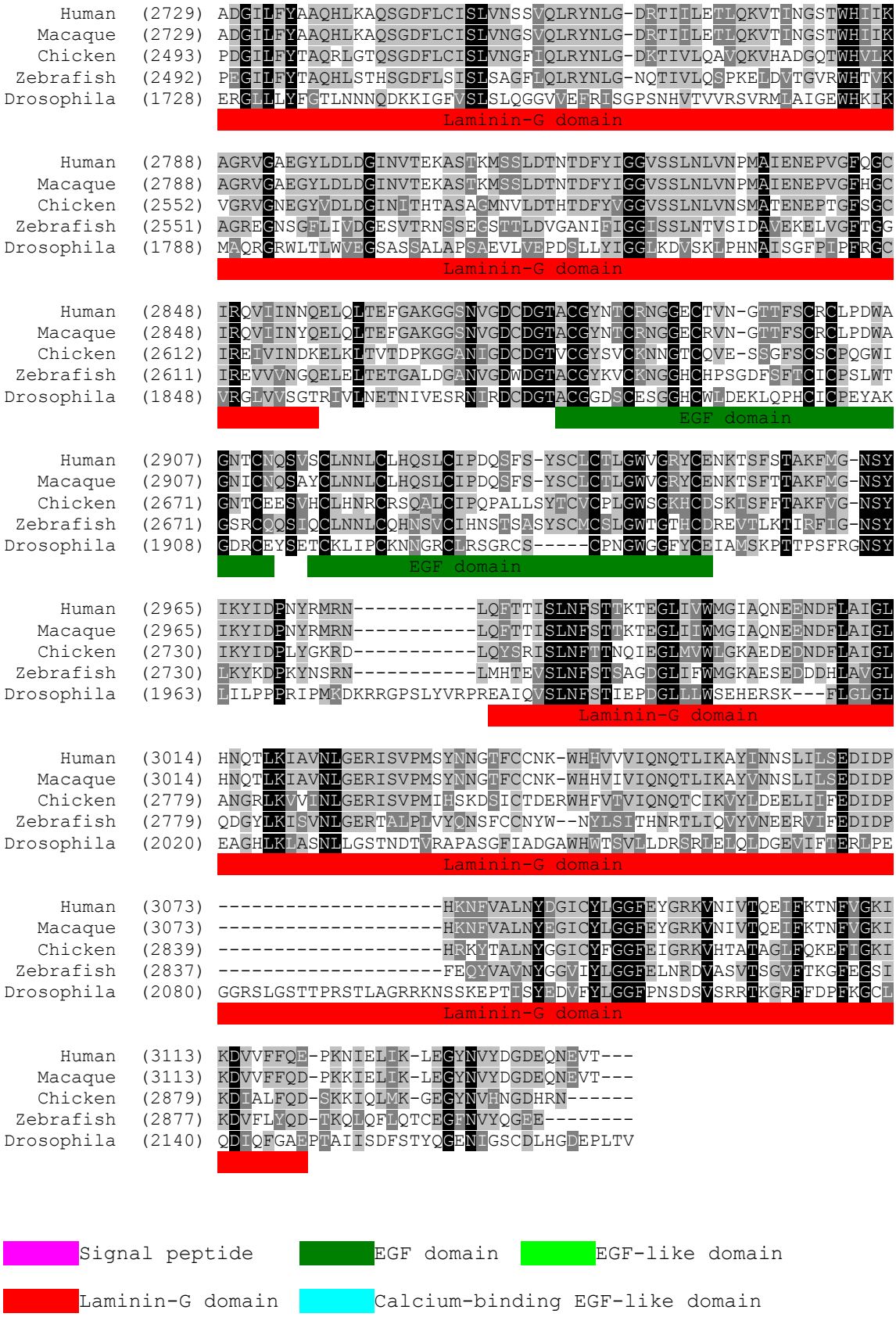
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Zebrafish (2551) AGREGNSGFLIVDGESVTRNSSEGSTTLDVGANIFIGGISSLNTVSIDAVEKELVGFTGG
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Macaque (2848) IRQVIINYQELQLTEFGAKGGSNVGDCDGTACGYNTCRNGGECRVN-GTTFSCRCLPDWA
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Zebrafish (2611) IREVVVNGQELELTETGALDGANVGDWDGTACGYKVCKNGGHCHPSGDFSFICICPSLWT
Drosophila (1848) VRGLVVSGTRIVLNETNIVESRNIRDCDGTACGGDSCESGGHCWLDEKLQPHCICPEYAK
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Macaque (2907) GNICNQSAYCLNNLCLHQSLCIPDQSFS-YSCLCTLGWVGRYCENKTSFTTAKFMG-NSY
Chicken (2671) GNTCEESVHCLHNRCRSQALCIPQPALLSYTCVCPLGWSGKHCLSKISFFTAKFVG-NSY
Zebrafish (2671) GSRCQQSIQCLNNLCQHNSVCIHNSTSASYSCMCSLGWTGTHCDREVTLKTIRFIG-NSY
Drosophila (1908) GDRCEYSETCKLIPCKNNGRCLRSGRCS-----CPNGWGGFYCEIAMSKPTTPSFRGNSY
EGF domain
Human (2965) IKYIDPNYRMRN----------LQFTTISLNFSTTKTEGLIVWMGIAQNEENDFLAIGL
Macaque (2965) IKYIDPNYRMRN----------LQFTTISLNFSTTKTEGLIIWMGIAQNEENDFLAIGL
Chicken (2730) IKYIDPLYGKRD----------LQYSRISLNFTTNQIEGLMVWLGKAEDEDNDFLAIGL
Zebrafish (2730) LKYKDPKYNSRN----------LMHTEVSLNFSTSAGDGLIFWMGKAESEDDDHLAVGL
Drosophila (1963) LILPPPRIPMKDKRRGPSLYVRPREAIQVSLNFSTIEPDGLLLWSEHERSK---FLGLGL
Laminin-G domain
Human (3014) HNQTLKIAVNLGERISVPMSYNNGTFCCNK-WHHVVVIQNQTLIKAYINNSLILSEDIDP
Macaque (3014) HNQTLKIAVNLGERISVPMSYNNGTFCCNK-WHHVIVIQNQTLIKAYVNNSLILSEDIDP
Chicken (2779) ANGRLKVVINLGERISVPMIHSKDSICTDERWHFVTVIQNQTCIKVYLDEELIIFEDIDP
Zebrafish (2779) QDGYLKISVNLGERTALPLVYQNSFCCNYW--NYLSITHNRTLIQVYVNEERVIFEDIDP
Drosophila (2020) EAGHLKLASNLLGSTNDTVRAPASGFIADGAWHWTSVLLDRSRIELQLDGEVIFTERLPE
Laminin-G domain
Human (3073) ----------HKNFVALNYDGICYLGGFEYGRKVNIVTQEIFKTNFVGKI
Macaque (3073) ----------HKNFVALNYEGICYLGGFEYGRKVNIVTQEIFKTNFVGKI
Chicken (2839) ----------HRKYTALNYGGICYFGGFEIGRKVHTATAGLFQKEFIGKI
Zebrafish (2837) ----------FEQYVAVNYGGVIYLGGFELNRDVASVTSGVFTKGFEGSI
Drosophila (2080) GGRSLGSTTPRSTLAGRRKNSSKEPTISYEDVFYLGGFPNSDSVSRRTKGRFFDPFKGCL
Laminin-G domain
Human (3113) KDVVFFQE-PKNIELIK-LEGYNVYDGDEQNEVT---
Macaque (3113) KDVVFFQD-PKKIELIK-LEGYNVYDGDEQNEVT---
Chicken (2879) KDIALFQD-SKKIQLMK-GEGYNVHNGDHRN------
Zebrafish (2877) KDVFLYQD-IKQLQFLQTCEGFNVYQGEE--------
Drosophila (2140) QDIQFGAEPIAIISDFSTYQGENIGSCDLHGDEPLTV
Signal peptide
EGF domain
EGF-like domain
Laminin-G domain
Calcium-binding EGF-like domain

Residues identical in all sequences are white on a black background, whereas similar amino acids are white on a gray background. Residues that are present in at least three of the five proteins are indicated in black on a light gray background.