Mview

Multiple Sequence Alignment (MSA)

Results for Job ID: mview-I20240403-113720-0389-48783328-p1m

Tool output

Download

MView

Reference sequence (1): Medaka-V2R
Identities normalised by aligned length.
Colored by: identity

```
                    cov    pid   1 [         .         .         .
:          .          .          . 80
 1 Medaka-V2R     100.0% 100.0%
MKMAPLLTGLFFMGLLLACDTAGEDASDCHVLESPELPLLSKDGDVMIGGAFSIHSKIAQPSLSFTEKPTPI
 2 Fugu-T1R3       96.8%  23.8%      --MAVSPTLLVLFWVFKMTSATPAWFQNI---STSL---
FNLPGDIKLGGLFPLNR-LTSNLSQRTE-PDQISCDR---I
 3 Puffer-T1R3     96.8%  25.6%      --MAVPPTLLVFLLVCKLTCSTPAWFQNI---STNL---
FNLPGDIMLGGLFPINQ-LTSNLSQRTE-PDQITCDR---I
 4 Chicken-T1R3    96.3%  26.1%      -----REIMIPWVLLCMSFGCAAALKPSC---LSAQ---
FRRPGDYIIGGLFPFGM-DTINLTARSE-PTLIVCER----
 5 Opossum-T1R3    97.0%  24.7%      -----MWGFLRCLGLSLGLACSTAQAKLC---LSRQ---
FRMKGDYILGGLFPFGI-KEEILLEKNQ-PKGVTCTK---F
 6 Dog-T1R3        96.9%  23.7%      -------MAGLMLLSLMALLGLGAGAPLC---LSRQ---
LRMQGDYVLGGLFPLGTAEDTGLSDRTQ-PNATVCTR---F
 7 Human-T1R3      97.1%  24.0%      -----MLGPAVLGLSLWALLHPGTGAPLC---LSQQ---
LRMKGDYVLGGLFPLGEAEEAGLRSRTR-PSSPVCTR---F
 8 Opossum-T1R2    92.5%  24.9%      ----------------------------------------
---MFTLHA-NIKGTTHLNY-TQVPQCKD-YET
 9 Dog-T1R2        96.4%  26.3%      --MGPRAKAVCSLFILLQVLAEPA--------ENSD---
FYLPGDYLLGGLFTLHA-NVKGTVHLSF-LQVPQCKK-YEM
10 Human-T1R2      96.8%  25.2%      --MGPRAKTISSLFFLLWVLAEPA--------ENSD---
FYLPGDYLLGGLFSLHA-NMKGIVHLNF-LQVPMCKE-YEV
11 Fugu-T1R2       94.4%  28.1%      ------MGCSLACLCLLGCVLYPLAQCTV---PASE---
FRLEGDYLIGGLFEIHY-EAFPTFHGR--PQTMDCSS-KFL
12 Puffer-T1R2     94.4%  27.1%      ------MGRSLACLCLLGLVLYPLARGTV---PASE---
FRLEGDYLLGGLFEIHY-DTFPTPHDR--PESLDCSS-KTL
13 Fugu-T1R1       97.6%  28.0%      --MQLQMKMLVAVLSATPLMLQLVTGELD---
YSTHGQGMQLHGNFSIAGFFPLHY-GEKLDGSL---PALELCKD-GEI
14 Puffer-T1R1     97.6%  27.5%      --MHLQTGTFVAILSTTNLVLQLVRGELD---
RSSHGQGMQLHGNFSIAGFFPLHY-GYEPDGRL---PALALCKD-GDL
15 Chicken-T1R1    78.9%  23.3%      --------------------------------P------
```

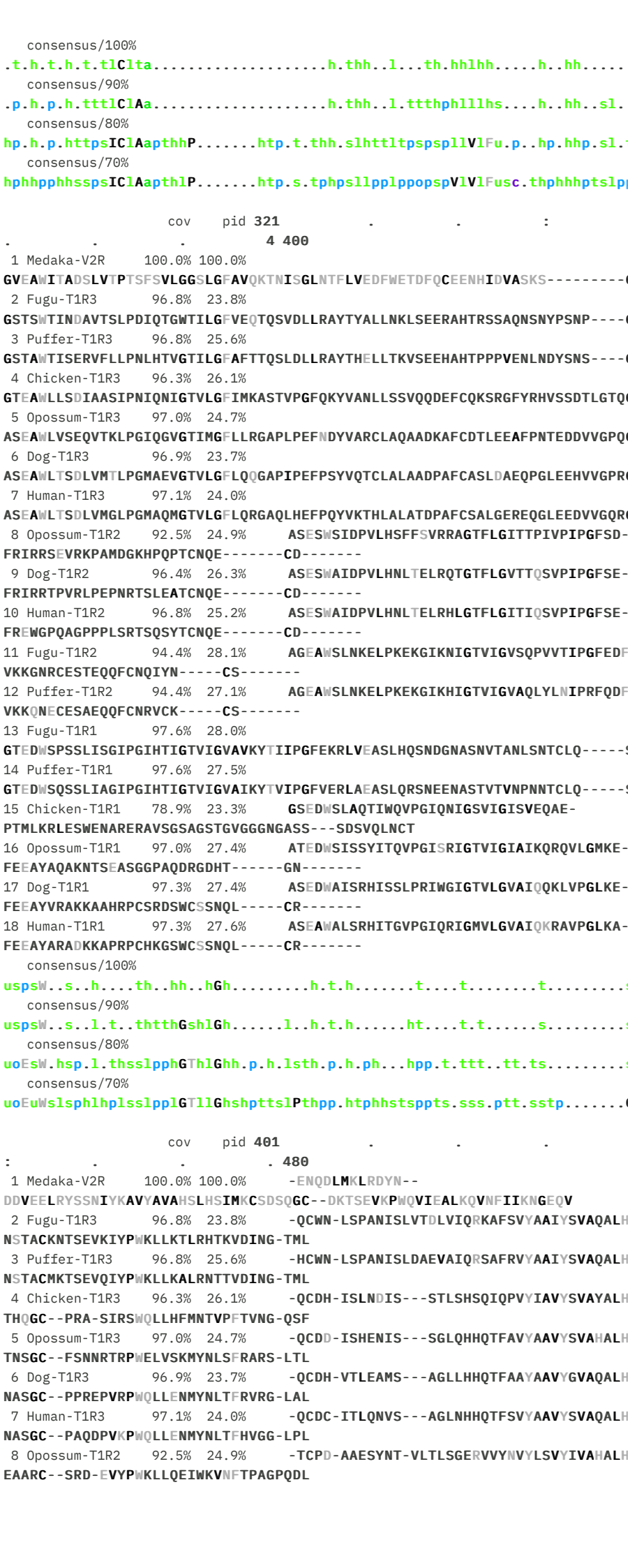
```
---------------------PRLPL-------
16 Opossum-T1R1     97.0%  27.4%     --MVHFKPYLVYLTLFMTCLFNCQETE-----THSD---
FKMPGDHTIAGLFPIHSVDDEVRLR----PEVTLCGRSKTF
17 Dog-T1R1         97.3%  27.4%     --MSLLAAHLVSLQLSLSCCWALSCHNTE---SSPD---
FSLPGDYLLAGLFPLHS-DCPGVRRR---PMVTLCDRPNSF
18 Human-T1R1       97.3%  27.6%     --MLLCTARLVGLQLLISCCWAFACHSTE---SSPD---
FTLPGDYLLAGLFPLHS-GCLQVRHR---PEVTLCDRSCSF
   consensus/100%
.....................................................................
   consensus/90%
.....................................................hF.ht........t.....t.
   consensus/80%
.......hh...h...h.h.h.............s.....h.h.Gsh.luGhFslt........ph...Pp.
   consensus/70%
.......thhhhhh.hh.hhh..h.h.......ssp...hph.GDahluGLFslp..tt.shhph...Pph

                    cov    pid  81          .         1         .
.         .         :          . 160
 1 Medaka-V2R     100.0% 100.0%     NLREFRFAQTMIFAIEEINKSK---
HLLPNVSIGYRIYDNCGSTLSSMRAVMALMNGDEL----LIEKNCSGQSAVHAII
 2 Fugu-T1R3       96.8%  23.8%     NTYGLGMAIAMKYTVDEINANQ---
ILLPGIQLGYEIYDTCLQSAIIVRPTLSLLSAKHDNTFSVQCNYTNYETSISAVI
 3 Puffer-T1R3     96.8%  25.6%     DSFGLGMAIVMKYAVDEINANQ---
FLLPGIRLGYEIHDTCRQSAVIIRPTIYYLRAKHDNNLIAQCNYTNYETRISAVI
 4 Chicken-T1R3    96.3%  26.1%     -LGGLIWALGMKFAIDEKST-----
SLLPGVELGYDIYDTCFEPLAALQPSLLFVTQNGTTGIGIACNYTDYQPRVTAVI
 5 Opossum-T1R3    97.0%  24.7%     STMGLLWALAMKMAIEEINSSS---
ALLPGVSLGYDLYDTCTLPMVTMKPSLLFISQKGSRDIGAYCNYTQYWPRVVAVI
 6 Dog-T1R3        96.9%  23.7%     SSLGLLWALAMKMAVEEVNNRS---
TLLPGLRLGYDLFDTCSEPVVAMKPSLMFMAKAGSCDIAAYCNYTQYQPRVLAVI
 7 Human-T1R3      97.1%  24.0%     SSNGLLWALAMKMAVEEINNKS---
DLLPGLRLGYDLFDTCSEPVVAMKPSLMFLAKAGSRDIAAYCNYTQYQPRVLAVI
 8 Opossum-T1R2    92.5%  24.9%     KVLGYNLMQAMRFAVEEINNDS---SLLPGLLLGYEMVD
NNIQPVLYFLAKENFSLP-IQQDYSNYLPRVVAVI
 9 Dog-T1R2        96.4%  26.3%     KVLGYNLMQAMRFAVEEINNRS---DLLPGVLLGYEIVD
NNVQPVLYFLAREDYSLP-IQEDYSHYVPRVLAVI
10 Human-T1R2      96.8%  25.2%     KVIGYNLMQAMRFAVEEINNDS---SLLPGVLLGYEIVD
NNVQPVLYFLAHEDNLLP-IQEDYSNYISRVVAVI
11 Fugu-T1R2       94.4%  28.1%     ILSNYRRFQLMRFAVAEINNST---SLLPNVTLGYEVFD
QSFSDVFKLLSVNNVIQPWNVPN--KNVSKVVAVL
12 Puffer-T1R2     94.4%  27.1%     FLSNYRRFQLMRFAVAEINNST---DLLPNVTLGYEVFD
RCFAGIFKLLSVDNVVQPWNVPG--KKVSKVVAVV
13 Fugu-T1R1       97.6%  28.0%     NKHGFHLLQAMKLAVDEINKDAGTQALLPGVVLGYQLYD
AGILASLDVLEYWSPSASGKVPNF-DISQRPLAVI
14 Puffer-T1R1     97.6%  27.5%     NKHGFHLLHAMKLAVEEINSNTGAQSLLPGVMLGYQMYD
ASILASLDVLDYWSSSASGTEPDFST-SQRPLAVI
15 Chicken-T1R1    78.9%  23.3%     ------------------------------------
---------------------------------
16 Opossum-T1R1    97.0%  27.4%     NGHGYHLFQAMRFGIEEINNSS---SLLPNVTLGYELYD
SNVYATLSVLSQPRGNHIRFPENVFNYYPKAVAVI
17 Dog-T1R1        97.3%  27.4%     NGHGYHLFQAMRFGIEEINNST---TLLPNVTLGYQLYD
ANVYATLNVLSTLGTHHIEIQADPSHYSPAALAVI
18 Human-T1R1      97.3%  27.6%     NEHGYHLFQAMRLGVEEINNST---ALLPNITLGYQLYD
ANVYATLRVLSLPGQHHIELQGDLLHYSPTVLAVI
   consensus/100%
.....................................................................
   consensus/90%
...th.hh.hMhhsltEhst......LLPsl.lGYphhD.C..s...h.s.h.hht..t........t..p
   consensus/80%                    ...sh.hh.sM+hul-
EINspp...tLLPsl.LGYplhDsC..s..sh.ssh.hls..t.....h..s..ph.spshAVI
   consensus/70%                    phhGhthh.uM+hAl-
EINsss...sLLPslhLGYclaDsC..s.ssh.ssL.hLsh.sspt..h.tsh.ph.s+llAVI

                    cov    pid 161          .         .         .
.         .         .          . 240
 1 Medaka-V2R     100.0% 100.0%
GESESSSTIVLSRTTGPYQIPVISHSATCECLSSRKEYPSFFRTIASDLHQSRALAQLVKHFGWSWVGAVN
 2 Fugu-T1R3       96.8%  23.8%
GPNNSEMVSVIGKLLGFFLMPQISYGATSEKFSDTALYPSFFRTVPSDKWQVEAMVLLLEEFNWNWVAVVG
 3 Puffer-T1R3     96.8%  25.6%
GPNNSELVSVIGKLLGFFLMPQISYGATSDKFSDNILYPSFFRTVPSDKGQVEAMVLLLLEFNWNWVAVVG
 4 Chicken-T1R3    96.3%  26.1%
GPHKSDLCLLTAKLFSFFLIPQVSYGASSEKLSNKELYPSFYRTVPSDKNLVEAVVLLLDEFGWNWIATIG
 5 Opossum-T1R3    97.0%  24.7%
```

```
GPHSSELALITGKLFGFFLMPQVSYGASTDRLSSRAIFPSFFRTIPSDRVQLQAIVDLLNLFSWNWVAAVGS
 6 Dog-T1R3        96.9%  23.7%
GPHSSELALITGKFFSFFLMPQVSYGASTDRLSNRETFPSFFRTVSSDRVQAVAMVELLQELGWNWVAAVGS
 7 Human-T1R3      97.1%  24.0%
GPHSSELAMVTGKFFSFFLMPQVSYGASMELLSARETFPSFFRTVPSDRVQLTAAAELLQEFGWNWVAALGS
 8 Opossum-T1R2    92.5%  24.9%
GPDTAESVVTVNHLLSLFLLPQITYSAISNELRDRSRFPSLFRTIPSGSHQMEAMIRIIIHFHWNWVILLVS
 9 Dog-T1R2        96.4%  26.3%
GPDNSESTTTVAHFLSLFLLPQITYSAISDDLRDKQRFPALLRTVAGADHQIEAMVQLLLHFNWNWIIVLVS
10 Human-T1R2      96.8%  25.2%
GPDNSESVMTVANFLSLFLLPQITYSAISDELRDKVRFPALLRTTPSADHHIEAMVQLMLHFRWNWIIVLVS
11 Fugu-T1R2       94.4%  28.1%
GLFSSTSTLTVAPLFMSDFIPLISYGSSSSIFSEKAKFPSFLRTVHSSKKVMEVIVKILQYFKWHWVAFLYS
12 Puffer-T1R2     94.4%  27.1%
GLFTSTFTLTVAPLFMMDFIPMISYGSSSSILSEKVKFPSFLRTVHSSQEVIQVIVKLLQYFKWHWVAFLYS
13 Fugu-T1R1       97.6%  28.0%
GPDSSSNSFTPATLLGAHLIPQISYEASNEMLSNKVLYPSFFRTIPSDKNQVAAMIQLLVRFNWTWIALLGS
14 Puffer-T1R1     97.6%  27.5%
GPDSSSKSFTPATLLGAYLVPQVSYEASNEMLSNKIFYPAFFRTIPSDKNQVAAMIQLLVRFNWTWVALLGS
15 Chicken-T1R1    78.9%  23.3%     ---------------------
QISYEASLEMLSTKRFYPSFLRTIPSDGQQVKAIGLLLQRFGWTWVALVGSDNTYGRDG
16 Opossum-T1R1    97.0%  27.4%
GPDSTELTSISASLLSTFLVPQISYEATSMMFSEKQKYPSFLRTIPSDKHQVQMILMLLKKFGWSWISVIGS
17 Dog-T1R1        97.3%  27.4%
GPDTTNHAATAAALLSPFLVPVISYEASSVMLGVKRYYPSFLRTIPSDKYQVEIMVLLLQRFGWVWISLVGS
18 Human-T1R1      97.3%  27.6%
GPDSTNRAATTAALLSPFLVPMISYAASSETLSVKRQYPSFLRTIPNDKYQVETMVLLLQKFGWTWISLVGS
   consensus/100%
.....................loatu....ht.p..aPuhhRTh.ss.....hhh.lh..htW.Wl.hl.S
   consensus/90%
G..psp.s.h.s.hh....hP.loYtu....hp.p..aPuhhRTl.ust..hthhh.ll..FtWpWl.hlhS
   consensus/80%
G.psop.s.h.uthhu.ahhP.lSYtAosphhus+.haPSFhRTlsSsp.phpshl.LL.cFtWsWluhlsS
   consensus/70%                  GPpsSp.shssuphhuhaLhPQISYuAoo-
hLSs+thaPSFhRTlPSDchQlpAhl.LL.cFsWsWluhlsSss-YGppG

                    cov    pid 241          :         .         .
.         3          .          . 320
 1 Medaka-V2R     100.0% 100.0%     MAIFLSAAQEEGVCVEYIEK---------
FDRAEPEKLLKVVEVIRKSTARVIVAFLAHVEMNNLLEQLNVHNITGRQFI
 2 Fugu-T1R3       96.8%  23.8%     VQDFSKLAANKSICVAYQGLIP-------
VYTDPEPMVKTILSNINSTKARVVIVFSLSNQAEIFFKEVIRMKLKGV-WI
 3 Puffer-T1R3     96.8%  25.6%     VQDFSKVAANRSICVAYQGLIP-------
VYTDPEPVVKTIISNINSTKANVVIVFSLPNQAEIFFQEVIRTELKGV-WI
 4 Chicken-T1R3    96.3%  26.1%     QELFLSTIGNSSICIAYEGLIPSDL----
TDPRAEKQLEETIQYINKTNVNIIVLFAFRQPAQALLKQSIKMRLSKKVWI
 5 Opossum-T1R3    97.0%  24.7%     LSIFSSLANNRSICIAHEGTLPLPRA---
QNSQDLGKVESILRQINQSAVQVVVLFASEAAARILFQYCIQTKVTPKVWV
 6 Dog-T1R3        96.9%  23.7%     LSLFSSLANARGICIAHEGLVPLPH----
TSSLRLGTVQGLLHQVNQSSVQVVVLFSSTRAARTLFSYSIHCRLSPKVWV
 7 Human-T1R3      97.1%  24.0%     LSIFSALAAARGICIAHEGLVPLPR----
ADDSRLGKVQDVLHQVNQSSVQVVLLFASVHAAHALFNYSISSRLSPKVWV
 8 Opossum-T1R2    92.5%  24.9%
GHLFSEKLEGRDICVAFQESLPIPSPNRVVMPQDKRRMEGLVAKIRRSTAKVVVVLSLDLALYTFFEEVLRQ
 9 Dog-T1R2        96.4%  26.3%
SQLLNDRLATGDICIAFQETLPMPQPDQVVTEWERQRLEAIVGKLQQSSARVVVLFSPDLILHNFFREVLRQ
10 Human-T1R2      96.8%  25.2%
GQLLGERVARRDICIAFQETLPTLQPNQNMTSEERQRLVTIVDKLQQSTARVVVVFSPDLTLYHFFNEVLRQ
11 Fugu-T1R2       94.4%  28.1%     LKLFIEKIKDTEICLAY------------
THSLDSSHYLSVFNQIDAQRINLIVVFAPHWHAIPLVQAAIRHNVTGKVWI
12 Puffer-T1R2     94.4%  27.1%     QKLFIEKIKNTDICLAY------------
THDLVSSDFLSIFQWIKSQKIVVIVVMAPEWSAKPLVKSAIQHNVTDKVWI
13 Fugu-T1R1       97.6%  28.0%     MQSLSQQAPEFNICIAYQGVIPG------
YTQDTVQVMRNIVDSILKTKVTTIVVFSSKSKLSKFMPFVIEQKVTGKVWI
14 Puffer-T1R1     97.6%  27.5%     MRSLSQQAPDHHICIAYQGVIPE------
YTRDTVALMRNIVDGILMTKVTTIVVFSSKSKLSKFMPFVIERNVTEKVWI
15 Chicken-T1R1    78.9%  23.3%     LNALSELLAASDVCVAYRGVIPT------
TKDAGSPELRKLIQTLVDSRVNVTVVFSNRRNAQPFFEAVVQENITGMVWV
16 Opossum-T1R1    97.0%  27.4%     VHLLEDLANQQEICIAYKDFVPI------
LAQAADNTMQNMMVDINKFGAEVVVVFCNKRLARVFFEAVVLGNVTDKVWL
17 Dog-T1R1        97.3%  27.4%     VQALEEQATQQGICIAFKDIIPF------
SAQPGNERMQSMMYHLDRARTTVVVVFSSRQLARVFFESVVLAKLTAKVWI
18 Human-T1R1      97.3%  27.6%     VQALENQATGQGICIAFKDIMPF------
SAQVGDERMQCLMRHLAQAGATVVVVFSSRQLARVFFESVVLTNLTGKVWV
```


consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid 321 4 400
1 Medaka-V2R 100.0% 100.0%
2 Fugu-T1R3 96.8% 23.8%
3 Puffer-T1R3 96.8% 25.6%
4 Chicken-T1R3 96.3% 26.1%
5 Opossum-T1R3 97.0% 24.7%
6 Dog-T1R3 96.9% 23.7%
7 Human-T1R3 97.1% 24.0%
8 Opossum-T1R2 92.5% 24.9%
9 Dog-T1R2 96.4% 26.3%
10 Human-T1R2 96.8% 25.2%
11 Fugu-T1R2 94.4% 28.1%
12 Puffer-T1R2 94.4% 27.1%
13 Fugu-T1R1 97.6% 28.0%
14 Puffer-T1R1 97.6% 27.5%
15 Chicken-T1R1 78.9% 23.3%
16 Opossum-T1R1 97.0% 27.4%
17 Dog-T1R1 97.3% 27.4%
18 Human-T1R1 97.3% 27.6%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid 401 480
1 Medaka-V2R 100.0% 100.0%
2 Fugu-T1R3 96.8% 23.8%
3 Puffer-T1R3 96.8% 25.6%
4 Chicken-T1R3 96.3% 26.1%
5 Opossum-T1R3 97.0% 24.7%
6 Dog-T1R3 96.9% 23.7%
7 Human-T1R3 97.1% 24.0%
8 Opossum-T1R2 92.5% 24.9%

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 9 Dog-T1R2        96.4%  26.3%     -TCQD-TTASFNS-ILMLSGERVVYNVYSAVYAVAHALH
TQAC--SKE-VVYPWQLLKEIWKVNFTLLG-HNV
10 Human-T1R2      96.8%  25.2%     -NCLN-ATLSFNT-ILRLSGERVVYSVYSAVYAVAHALH
DKSTC--TKR-VVYPWQLLEEIWKVNFTLLD-HQI
11 Fugu-T1R2       94.4%  28.1%     -QESA-DILAADP--------SYSFSVYSAVYSTAHALH
DFGKC--DNGIPISPPVLLAQLKKSNFTLLT-ERV
12 Puffer-T1R2     94.4%  27.1%     -NVSAEDTLAVDP--------SYAFSVYSAVYAAAHALH
GTGKC--DSGVSVSPPALLAELKRSNFTLLN-QTI
13 Fugu-T1R1       97.6%  28.0%     -DLYS-LAEMNFP--LDNYDITSAINVYKAVYAVAHALH
DSGEC--QRK-RVYPWELLSRLKQVRFLMAN-SSV
14 Puffer-T1R1     97.6%  27.5%     -ELYS-LAEMNLP--LDNYDIASAVNVYKAVYAVAHALH
GSGEC--QRK-RVYPWELLSRLKQVQFPMAN-ASV
15 Chicken-T1R1    78.9%  23.3%     QHCPGCHLLADTP---DIYDIQASYNVYSAVYAVAHGLH
ASGVC--SKG-RVYPWQLLQKIKQVNFSLHK-SYI
16 Opossum-T1R1    97.0%  27.4%     -QHQA-LTANANT-ELSQFSMNAAYNVYAAVYAVAHGLH
PSGVC--TPG-KIYPWQLLAEIRKVNFTLQG-NPV
17 Dog-T1R1        97.3%  27.4%     -ECQA-FTVQQMP-TLGAFSMSSAYNAYRAVYAAAHGLH
ASGAC--SRD-RVYPWQLLEQIRKVNFLLHE-DTV
18 Human-T1R1      97.3%  27.6%     -ECQA-FMAHTMP-KLKAFSMSSAYNAYRAVYAVAHGLH
ASGAC--SRG-RVYPWQLLEQIHKVHFLLHK-DTV
   consensus/100%
.p..t.......s........t....hY.ulY.sA.uLH..h.C...t.C....t..h.s..llt.h.p..l
   consensus/90%
.p..t.......s........p.s.ssY.AlYusApuLHphLtC..tt.C....t..l.P.tLltthhp.pl
   consensus/80%
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   consensus/70%
.ps.s.hshts.s...th.t.p.sasVYtAVYuVAHALHplLtC.ssusC..spt.plhPWpLLpplhplsl

                    cov    pid 481          .         5         .
.         .         :         . 560
 1 Medaka-V2R     100.0% 100.0%     WFDSTGAVLAR-
YEVVNWQQRSTGSVHFEPVGYYDASLPPGQKFVLNTEAIMWP--GGSTKLPVSVCSESCRPGTYKVLE
 2 Fugu-T1R3       96.8%  23.8%     EFDSNGNPNVG-YNLIELIWKN-STLEFVEVGSF--N--
KILNINVSLFKWH--TETSEVPQSTCSAACGEGQVHRV-
 3 Puffer-T1R3     96.8%  25.6%     KFDRNGNPNIG-YSVVELILKN-SSLEFLEVGSF--N--
KILDIKKSLFKWH--TENSEVPESTCSAACGEGQVHRV-
 4 Chicken-T1R3    96.3%  26.1%     RFDESHGTNSG-YKLIFWHWEN-GSLTHLPVGDY--Q--
ESLYLNKSLIQFH--TTDQKEPTSECFRECEPGQIKQI-
 5 Opossum-T1R3    97.0%  24.7%     KFDDNGNVDMI-YDLKLWVWHDNMDPELLTIGSF--Q--
GDLKLNRSQIRWH--SPGNQEPVSRCSRECEEGQVRRV-
 6 Dog-T1R3        96.9%  23.7%     QFDARGNVNMD-YDLKLWVWRD-LKPELRTVGAF--N--
GRLKVWHSQMSWH--TPGNQRPVSQCSRQCGEGQVRRV-
 7 Human-T1R3      97.1%  24.0%     RFDSSGNVDME-YDLKLWVWQG-SVPRLHDVGRF--N--
GSLRTERLKIRWH--TSDNQKPVSRCSRQCQEGQVRRV-
 8 Opossum-T1R2    92.5%  24.9%     LLTSRAILPLG-LEIIQWQWED-GHNPFNSIGLL--QPS
TAIISWATNISWH--TGQQSRP-SVCSKSCQPGQWKRP-
 9 Dog-T1R2        96.4%  26.3%     FFDKQGDVLMP-MEVIQWQWDL-SQNPFQSIASY----
YPKLRQLKAIHNISWH--TANNTIPVSMCSKDCHPGQRKKP-
10 Human-T1R2      96.8%  25.2%     FFDPQGDVALH-LEIVQWQWDR-SQNPFQSVASY----
YPLQRQLKNIQDISWH--TINNTIPMSMCSKRCQSGQKKKP-
11 Fugu-T1R2       94.4%  28.1%     QFDENGDPRFGSYAVLFWNQTG-DPENF---GTC--
CFYPSVKIFINDSKIQWH----SKEVPISQCSKDCKEGYAKRI-
12 Puffer-T1R2     94.4%  27.1%     HFNEDGDPLFGSYAVHFWNRSG-AAENF---GIC--
SFYPSIQIFINESKIQWH----SKEVPVSQCSKECEEGNAKRQ-
13 Fugu-T1R1       97.6%  28.0%     YFDSNGDPPTG-YDIICWVWHG-TEWSVRRVGSF--SPN
ISLTIDADKIEWHISGDSRSVPQSICSPPCEPGHRRLL-
14 Puffer-T1R1     97.6%  27.5%     YFDSNGDPPTG-YDIISWVWRG-AKWSVRVVGSF--SPT
ISLTVDADAVEWHISGDSRSVPQSICSPPCEPGHKRLL-
15 Chicken-T1R1    78.9%  23.3%     SFDANGNIRKG-YNIIAWNWRG-QSWAFDVVGAF--SVN
NRLHIDQSKILWH--TKDHQVPVSVCSWPCAAGEMRLQ-
16 Opossum-T1R1    97.0%  27.4%     SFDEDGDPVSG-YDIITWDWNG-PNWTFKVIGTS--TWY
VFLEIDGTKIHWH--REENQVPRSVCSQDCLPGEARRI-
17 Dog-T1R1        97.3%  27.4%     IFNDNGDPLSG-YDIIAWDWSG-PKWTFRVIGSS--TWP
VQLDINKTKIRWH--GEDNQVPESVCSSNCLEGHQRVV-
18 Human-T1R1      97.3%  27.6%     AFNDNRDPLSS-YNIIAWDWNG-PKWTFTVLGSS--TWS
VQLNINETKIQWH--GKDNQVPKSVCSSDCLEGHQRVV-
   consensus/100%
.hs.pt......htlh.h..p......h...u...................h.a.....tpp.P.S.C...C
   consensus/90%
.Fstpts.....htlh.h..pt.....h...u.............h..p.h.WH....tpp.P.S.CS..C
   consensus/80%
.FsppGss..t.Yplh.W.hps.sp.th..lGth..p.....tl.hptptlpWH..s.spphP.S.CSttC
   consensus/70%
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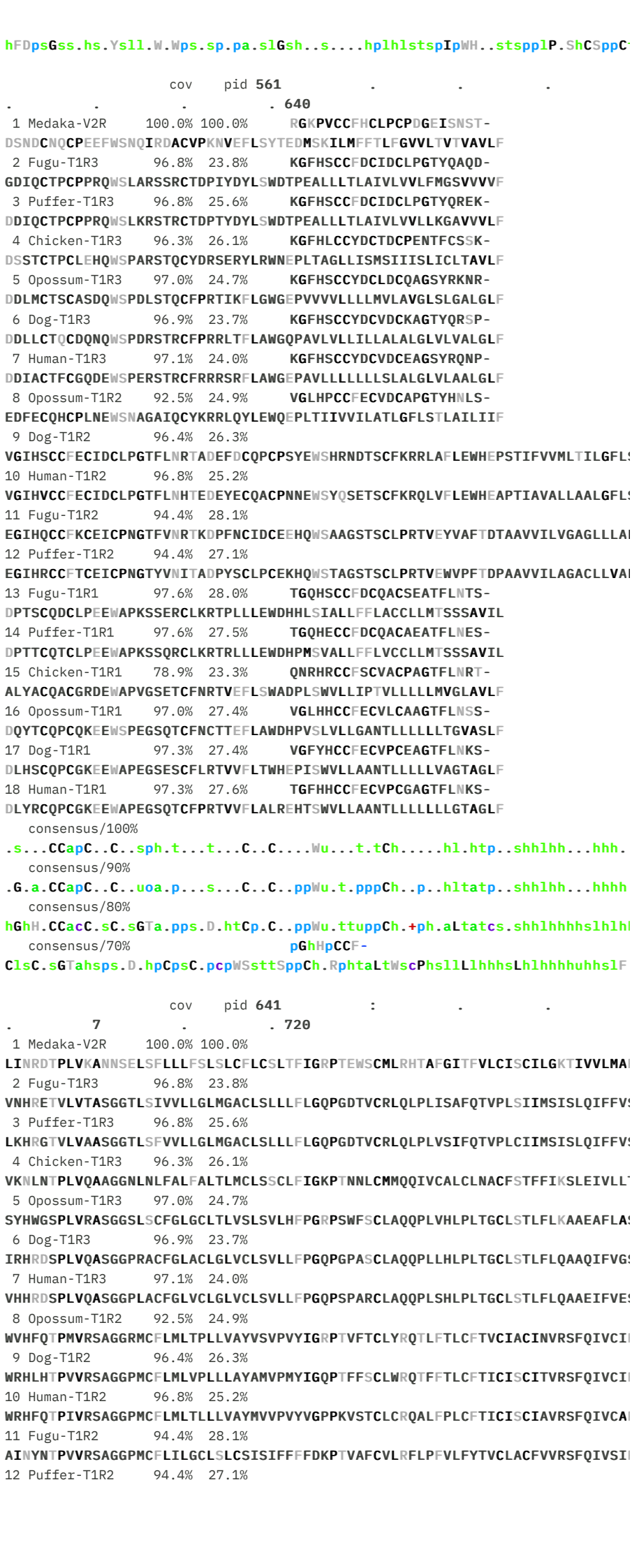
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cov pid 561 640
1 Medaka-V2R 100.0% 100.0% RGKPVCCFHCLPCPDGEISNST-
DSNDCNQCPEEFWSNQIRDACVPKNVEFLSYTEDMSKILMFFTLFGVVLTVTVAVLF
2 Fugu-T1R3 96.8% 23.8% KGFHSCCFDCIDCLPGTYQAQD-
GDIQCTPCPPRQWSLARSSRCTDPIYDYLSWDTPEALLLTLAIVLVVLFMGSVVVVF
3 Puffer-T1R3 96.8% 25.6% KGFHSCCFDCIDCLPGTYQREK-
DDIQCTPCPPRQWSLKRSTRCTDPTYDYLSWDTPEALLLTLAIVLVVLLKGAVVVLF
4 Chicken-T1R3 96.3% 26.1% KGFHLCCYDCTDCPENTFCSSK-
DSSTCTPCLEHQWSPARSTQCYDRSERYLRWNEPLTAGLLISMSIIISLICLTAVLF
5 Opossum-T1R3 97.0% 24.7% KGFHSCCYDCLDCQAGSYRKNR-
DDLMCTSCASDQWSPDLSTQCFPRTIKFLGWGEPVVVVLLLLMVLAVGLSLGALGLF
6 Dog-T1R3 96.9% 23.7% KGFHSCCYDCVDCKAGTYQRSP-
DDLLCTQCDQNQWSPDRSTRCFPRRLTFLAWGQPAVLVLLILLALALGLVLVALGLF
7 Human-T1R3 97.1% 24.0% KGFHSCCYDCVDCEAGSYRQNP-
DDIACTFCGQDEWSPERSTRCFRRRSRFLAWGEPAVLLLLLLSLALGLVLAALGLF
8 Opossum-T1R2 92.5% 24.9% VGLHPCCFECVDCAPGTYHNLS-
EDFECQHCPLNEWSNAGAIQCYKRRLQYLEWQEPLTIIVVILATLGFLSTLAILIIF
9 Dog-T1R2 96.4% 26.3%
VGIHSCCFECIDCLPGTFLNRTADEFDCQPCPSYEWSHRNDTSCFKRRLAFLEWHEPSTIFVVMLTILGFLS
10 Human-T1R2 96.8% 25.2%
VGIHVCCFECIDCLPGTFLNHTEDEYECQACPNNEWSYQSETSCFKRQLVFLEWHEAPTIAVALLAALGFLS
11 Fugu-T1R2 94.4% 28.1%
EGIHQCCFKCEICPNGTFVNRTKDPFNCIDCEEHQWSAAGSTSCLPRTVEYVAFTDTAAVVILVGAGLLLAI
12 Puffer-T1R2 94.4% 27.1%
EGIHRCCFTCEICPNGTYVNITADPYSCLPCEKHQWSTAGSTSCLPRTVEWVPFTDPAAVVILAGACLLVAI
13 Fugu-T1R1 97.6% 28.0% TGQHSCCFDCQACSEATFLNTS-
DPTSCQDCLPEEWAPKSSERCLKRTPLLLEWDHHLSIALLFFLACCLLMTSSSAVIL
14 Puffer-T1R1 97.6% 27.5% TGQHECCFDCQACAEATFLNES-
DPTTCQTCLPEEWAPKSSQRCLKRTRLLLEWDHPMSVALLFFLVCCLLMTSSSAVIL
15 Chicken-T1R1 78.9% 23.3% QNRHRCCFSCVACPAGTFLNRT-
ALYACQACGRDEWAPVGSETCFNRTVEFLSWADPLSWVLLIPTVLLLLLMVGLAVLF
16 Opossum-T1R1 97.0% 27.4% VGLHHCCFECVLCAAGTFLNSS-
DQYTCQPCQKEEWSPEGSQTCFNCTTEFLAWDHPVSLVLLGANTLLLLLLTGVASLF
17 Dog-T1R1 97.3% 27.4% VGFYHCCFECVPCEAGTFLNKS-
DLHSCQPCGKEEWAPEGSESCFLRTVVFLTWHEPISWVLLAANTLLLLLVAGTAGLF
18 Human-T1R1 97.3% 27.6% TGFHHCCFECVPCGAGTFLNKS-
DLYRCQPCGKEEWAPEGSQTCFPRTVVFLALREHTSWVLLAANTLLLLLLLGTAGLF
consensus/100%
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consensus/90%
.G.a.CCapC..C..uoa.p...s...C..C..ppWu.t.pppCh..p..hltatp..shhlhh...hhhh
consensus/80%
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consensus/70% pGhHpCCF-
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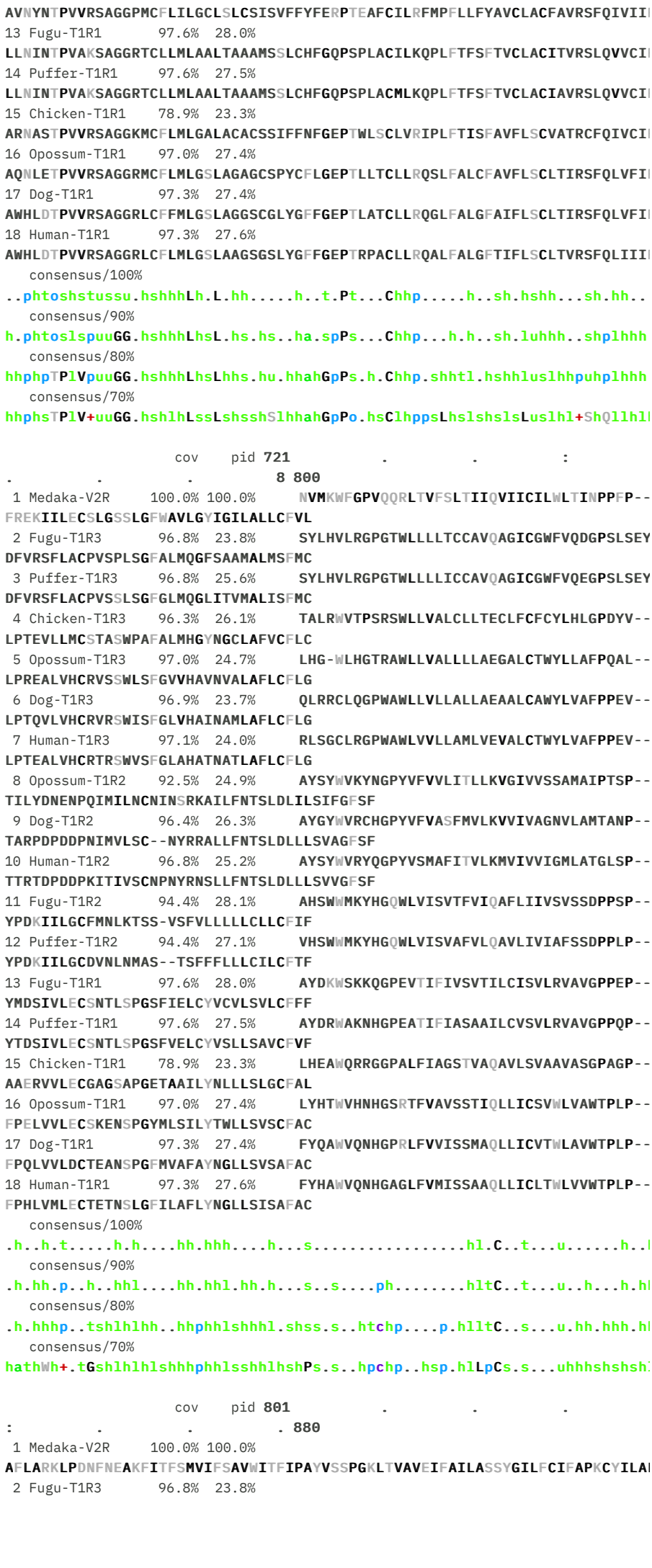
cov pid 641 720
1 Medaka-V2R 100.0% 100.0%
LINRDTPLVKANNSELSFLLLFSLSLCFLCSLTFIGRPTEWSCMLRHTAFGITFVLCISCILGKTIVVLMAI
2 Fugu-T1R3 96.8% 23.8%
VNHRETVLVTASGGTLSIVVLLGLMGACLSLLLFLGQPGDTVCRLQLPLISAFQTVPLSIIMSISLQIFFVS
3 Puffer-T1R3 96.8% 25.6%
LKHRGTVLVAASGGTLSFVVLLGLMGACLSLLLFLGQPGDTVCRLQLPLVSIFQTVPLCIIMSISLQIFFVS
4 Chicken-T1R3 96.3% 26.1%
VKNLNTPLVQAAGGNLNLFALFALTLMCLSSCLFIGKPTNNLCMMQQIVCALCLNACFSTFFIKSLEIVLLT
5 Opossum-T1R3 97.0% 24.7%
SYHWGSPLVRASGGSLSCFGLGCLTLVSLSVLHFPGRPSWFSCLAQQPLVHLPLTGCLSTLFLKAAEAFLAS
6 Dog-T1R3 96.9% 23.7%
IRHRDSPLVQASGGPRACFGLACLGLVCLSVLLFPGQPGPASCLAQQPLLHLPLTGCLSTLFLQAAQIFVGS
7 Human-T1R3 97.1% 24.0%
VHHRDSPLVQASGGPLACFGLVCLGLVCLSVLLFPGQPSPARCLAQQPLSHLPLTGCLSTLFLQAAEIFVES
8 Opossum-T1R2 92.5% 24.9%
WVHFQTPMVRSAGGRMCFLMLTPLLVAYVSVPVYIGRPTVFTCLYRQTLFTLCFTVCIACINVRSFQIVCI
9 Dog-T1R2 96.4% 26.3%
WRHLHTPVVRSAGGPMCFLMLVPLLLAYAMVPMYIGQPTFFSCLWRQTFFTLCFTICISCITVRSFQIVCI
10 Human-T1R2 96.8% 25.2%
WRHFQTPIVRSAGGPMCFLMLTLLLVAYMVVPVYVGPPKVSTCLCRQALFPLCFTICISCIAVRSFQIVCA
11 Fugu-T1R2 94.4% 28.1%
AINYNTPVVRSAGGPMCFLILGCLSLCSISIFFFFDKPTVAFCVLRFLPFVLFYTVCLACFVVRSFQIVSI
12 Puffer-T1R2 94.4% 27.1%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1 Medaka-V2R 100.0% 100.0%
2 Fugu-T1R3 96.8% 23.8%
3 Puffer-T1R3 96.8% 25.6%
4 Chicken-T1R3 96.3% 26.1%
5 Opossum-T1R3 97.0% 24.7%
6 Dog-T1R3 96.9% 23.7%
7 Human-T1R3 97.1% 24.0%
8 Opossum-T1R2 92.5% 24.9%
9 Dog-T1R2 96.4% 26.3%
10 Human-T1R2 96.8% 25.2%
11 Fugu-T1R2 94.4% 28.1%
12 Puffer-T1R2 94.4% 27.1%
13 Fugu-T1R1 97.6% 28.0%
14 Puffer-T1R1 97.6% 27.5%
15 Chicken-T1R1 78.9% 23.3%
16 Opossum-T1R1 97.0% 27.4%
17 Dog-T1R1 97.3% 27.4%
18 Human-T1R1 97.3% 27.6%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid 801 880
1 Medaka-V2R 100.0% 100.0%
2 Fugu-T1R3 96.8% 23.8%

```
TFMATKPLHQYNLARDITFSSLIYCVIWVTFIPIYIGLEEKRRAIIHVSFILASDLGLVAVYYIPKCYFLLI
 3 Puffer-T1R3     96.8%  25.6%
TFMATKPLHQYNLARDITFSSLIYCIIWVTFIPIYVGLEEKFKSIVYVSFILTSNLGMVAMYYIPKCYLLLI
 4 Chicken-T1R3    96.3%  26.1%
TFMVQSSGKKYNMARGITFTILIYFIIWIFFITVFATLRTVLMSVIQISTILMVSLGIVGTYYIPKCYILLI
 5 Opossum-T1R3    97.0%  24.7%
TFMVQSQAGRYNLARGITFAMLVYFIIWLSFVPLFTNVHKVYQPAMQMTAILLSALGILAAFYLPKCYLLLI
 6 Dog-T1R3        96.9%  23.7%
TFLVQSRPGRYNGARGLTFAMLAYFITWISFVPLFANVHVAYQPTVQMAAILLCALGILATFHLPKCYLLLC
 7 Human-T1R3      97.1%  24.0%
TFLVRSQPGRYNRARGLTFAMLAYFITWVSFVPLLANVQVVLRPAVQMGALLLCVLGILAAFHLPRCYLLMI
 8 Opossum-T1R2    92.5%  24.9%
SYMGKELPTNYNEAKFITLSMTFYFASSAFLCTFMSVYQGVLLTIFDVSITVINLLSISMGYFGPKCYMILI
 9 Dog-T1R2        96.4%  26.3%
AYMGKELPTNYNEAKFITLCMTFYFTSSVSLCTFMSVYDGVLVTILDLLITVLNLLGISFGYFGPKCYMVLI
10 Human-T1R2      96.8%  25.2%
AYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFMSAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMILI
11 Fugu-T1R2       94.4%  28.1%
SYMGKDLPKNYNEAKAITFCLLLLILTWIIFTTASLLYQGKYIHSLNALAVLSSIYSFLLWYFLPKCYIIII
12 Puffer-T1R2     94.4%  27.1%
SYMGKDLPKNYNEAKAITFCLLLLILTWIIFATVIMLYHGKYIHTLNALAVLSSAYCFLLWYFLPKCYIIII
13 Fugu-T1R1       97.6%  28.0%
SYMGKDLPANYNEAKCVTFSLMVYMISWISFFTVYLISRGPFTVAAYVCATLVSVLAFFGGYFLPKIYIIVI
14 Puffer-T1R1     97.6%  27.5%
SYMGKDLPANYNEAKCVTFSLMVYMISWISFFTVYLISRGPFTMAAYVCATLVSVLAFFGGYFLPKIYIIVI
15 Chicken-T1R1    78.9%  23.3%
SYAGKDLPADYNEAKCLTCSLLLHLACSAAVLCTRSYFRGRSAAVTAALGALGTLAPLLSGYFLPKGFVVLI
16 Opossum-T1R1    97.0%  27.4%
TYLGKDLPENYNEAKCMTFSLLFYFISWIGLATSSSIYNGKYMPAINMLVILSSLSGVFSGYFLPKCYVILC
17 Dog-T1R1        97.3%  27.4%
SYLGKDLPENYNEAKCVTFSLLLNFVSWIGFFTTASVYQGKYLPAVNVLAALSSLSSGFSGYFLPKCYVILC
18 Human-T1R1      97.3%  27.6%
SYLGKDLPENYNEAKCVTFSLLFNFVSWIAFFTTASVYDGKYLPAANMMAGLSSLSSGFGGYFLPKCYVILC
   consensus/100%
sahspp..tpaN.A+.hThs.hh..h..h.hhs.............h.h.hhl.s..sh..hhahP+hahlh
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   consensus/80%
oahspp.stpYN.A+hlThshhhhhh..l.hhshh..hpshhhshhth.hhL.s.huhhhsaahPKCYhllI
   consensus/70%
oahu+chPtpYNcA+slTFuhlhahlsWlsFhshhshhpshhhsshphhshLhshhuhhhsYalPKCYlllI
```

```
                    cov    pid 881          .          9      ] 907
 1 Medaka-V2R     100.0% 100.0%     SM--------LGKS-------------
 2 Fugu-T1R3       96.8%  23.8%     HF-------------------------
 3 Puffer-T1R3     96.8%  25.6%     HF-------------------------
 4 Chicken-T1R3    96.3%  26.1%     YFQYSTKEEPEGDSQ------------
 5 Opossum-T1R3    97.0%  24.7%     FFQSSLELGPRASGEAQEEKPEKRRSQ
 6 Dog-T1R3        96.9%  23.7%     FF---LGDDARGQGSSGSGGKET----
 7 Human-T1R3      97.1%  24.0%     FFLGGGPGDAQGQNDGNTGNQGKHE--
 8 Opossum-T1R2    92.5%  24.9%     YFNNVIQGYTMRKE-------------
 9 Dog-T1R2        96.4%  26.3%     YFSSMIQGYTMGKD-------------
10 Human-T1R2      96.8%  25.2%     YFNSMIQGYTMRRD-------------
11 Fugu-T1R2       94.4%  28.1%     YFQGLIQDYTK----------------
12 Puffer-T1R2     94.4%  27.1%     YFQGLIQDYTK----------------
13 Fugu-T1R1       97.6%  28.0%     HFQNCIQMYTMSKQ-------------
14 Puffer-T1R1     97.6%  27.5%     HFQNCIQMYTMSKQ-------------
15 Chicken-T1R1    78.9%  23.3%     RFQQEIRSYTRR---------------
16 Opossum-T1R1    97.0%  27.4%     YFQASIQDYTQRCSP-----------
17 Dog-T1R1        97.3%  27.4%     HFQASIQDYTRRCGST-----------
18 Human-T1R1      97.3%  27.6%     HFQASIQDYTRRCGST-----------
   consensus/100%                  .h.........................
   consensus/90%                   hF.........................
   consensus/80%                   aF...h...s.................
   consensus/70%                   aFpt.lp..shtpt.............
```

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