Mview

Multiple Sequence Alignment (MSA)

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

Tool Output Result Files Submission Details

15 Chicken-T1R1 78.9% 23.3%

Tool output



MView

Reference sequence (1): Medaka-V2R Identities normalised by aligned length. Colored by: identity pid **1** [COV 1 Medaka-V2R 100.0% 100.0% ${\tt MKMAPLLTGLFFMGLLLACDTAGEDASDCHVLESPELPLLSKDGDVMIGGAFSIHSKIA} {\tt OPSLSFTEKPTPICTURE} {\tt$ 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-------MWGFLRCLGLSLGLACSTAQAKLC---LSRQ---5 Opossum-T1R3 97.0% 24.7% 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 96.4% 26.3% --MGPRAKAVCSLFILLQVLAEPA-----ENSD---9 Dog-T1R2 FYLPGDYLLGGLFTLHA-NVKGTVHLSF-LQVPQCKK-YEM --MGPRAKTISSLFFLLWVLAEPA-----ENSD---10 Human-T1R2 96.8% 25.2% FYLPGDYLLGGLFSLHA-NMKGIVHLNF-LQVPMCKE-YEV -----MGCSLACLCLLGCVLYPLAQCTV---PASE---11 Fugu-T1R2 94.4% 28.1% FRLEGDYLIGGLFEIHY-EAFPTFHGR--POTMDCSS-KFL -----MGRSLACLCLLGLVLYPLARGTV---PASE---12 Puffer-T1R2 94.4% 27.1% FRLEGDYLLGGLFEIHY-DTFPTPHDR--PESLDCSS-KTL 97.6% 28.0% --MQLQMKMLVAVLSATPLMLQLVTGELD---13 Fugu-T1R1 YSTHGQGMQLHGNFSIAGFFPLHY-GEKLDGSL---PALELCKD-GEI 14 Puffer-T1R1 97.6% 27.5% --MHLQTGTFVAILSTTNLVLQLVRGELD---RSSHGQGMQLHGNFSIAGFFPLHY-GYEPDGRL---PALALCKD-GDL

```
-----PRLPL-----
                             --MVHFKPYLVYLTLFMTCLFNCQETE----THSD---
              97.0% 27.4%
16 Opossum-T1R1
FKMPGDHTIAGLFPIHSVDDEVRLR----PEVTLCGRSKTF
              97.3% 27.4% --MSLLAAHLVSLQLSLSCCWALSCHNTE---SSPD---
FSLPGDYLLAGLFPLHS-DCPGVRRR---PMVTLCDRPNSF
18 Human-T1R1 97.3% 27.6% --MLLCTARLVGLOLLISCCWAFACHSTE---SSPD---
FTLPGDYLLAGLFPLHS-GCLQVRHR---PEVTLCDRSCSF
  consensus/90%
.....hF.ht.....t.
......hh...h..h.h.h.h.....s....h.h.Gsh.luGhFslt......ph...Pp.
  consensus/70%
.....thhhhhh.hh.hh..h.h.....ssp...hph.GDahluGLFslp..tt.shhph...Pph
                 cov pid 81
                           . 160
                 :
1 Medaka-V2R
              100.0% 100.0%
                             NLREFRFAQTMIFAIEEINKSK---
HLLPNVSIGYRIYDNCGSTLSSMRAVMALMNGDEL----LIEKNCSGQSAVHAII
              96.8% 23.8% NTYGLGMAIAMKYTVDEINANQ---
2 Fugu-T1R3
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
NNIOPVLYFLAKENFSLP-IOODYSNYLPRVVAVI
 9 Dog-T1R2
               96.4% 26.3%
                             KVLGYNLMQAMRFAVEEINNRS---DLLPGVLLGYEIVD
NNVQPVLYFLAREDYSLP-IQEDYSHYVPRVLAVI
              96.8% 25.2% KVIGYNLMQAMRFAVEEINNDS---SLLPGVLLGYEIVD
10 Human-T1R2
NNVOPVLYFLAHEDNLLP-IQEDYSNYISRVVAVI
11 Fugu-T1R2
              94.4% 28.1%
                              ILSNYRRFQLMRFAVAEINNST---SLLPNVTLGYEVFD
QSFSDVFKLLSVNNVIQPWNVPN--KNVSKVVAVL
12 Puffer-T1R2 94.4% 27.1%
                              FLSNYRRFOLMRFAVAEINNST---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%
                            NGHGYHLFOAMRFGIEEINNSS---SLLPNVTLGYELYD
SNVYATLSVLSQPRGNHIRFPENVFNYYPKAVAVI
               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
                     pid 161
                 cov
                            . 240
1 Medaka-V2R
             100.0% 100.0%
GESESSSTIVLSRTTGPYQIPVISHSATCECLSSRKEYPSFFRTIASDLHQSRALAQLVKHFGWSWVGAVN:
               96.8% 23.8%
2 Fugu-T1R3
GPNNSEMVSVIGKLLGFFLMPQISYGATSEKFSDTALYPSFFRTVPSDKWQVEAMVLLLEEFNWNWVAVVG!
3 Puffer-T1R3 96.8% 25.6%
GPNNSELVSVIGKLLGFFLMPQISYGATSDKFSDNILYPSFFRTVPSDKGQVEAMVLLLLEFNWNWVAVVG!
4 Chicken-T1R3 96.3% 26.1%
GPHKSDLCLLTAKLFSFFLIPOVSYGASSEKLSNKELYPSFYRTVPSDKNLVEAVVLLLDEFGWNWIATIG:
```

5 Opossum-T1R3

97.0% 24.7%

```
GPHSSELALITGKLFGFFLMPQVSYGASTDRLSSRAIFPSFFRTIPSDRVQLQAIVDLLNLFSWNWVAAVG
6 Dog-T1R3
               96.9% 23.7%
GPHSSELALITGKFFSFFLMPQVSYGASTDRLSNRETFPSFFRTVSSDRVQAVAMVELLQELGWNWVAAVG
 7 Human-T1R3
               97.1% 24.0%
GPHSSELAMVTGKFFSFFLMPOVSYGASMELLSARETFPSFFRTVPSDRV0LTAAAELL0EFGWNWVAALG
8 Opossum-T1R2 92.5% 24.9%
GPDTAESVVTVNHLLSLFLLPQITYSAISNELRDRSRFPSLFRTIPSGSHQMEAMIRIIIHFHWNWVILLV!
9 Dog-T1R2
               96.4% 26.3%
GPDNSESTTTVAHFLSLFLLPOITYSAISDDLRDKORFPALLRTVAGADHOIEAMVOLLLHFNWNWIIVLV!
10 Human-T1R2 96.8% 25.2%
GPDNSESVMTVANFLSLFLLPQITYSAISDELRDKVRFPALLRTTPSADHHIEAMVQLMLHFRWNWIIVLV!
11 Fugu-T1R2 94.4% 28.1%
GLFSSTSTLTVAPLFMSDFIPLISYGSSSSIFSEKAKFPSFLRTVHSSKKVMEVIVKILQYFKWHWVAFLY
12 Puffer-T1R2 94.4% 27.1%
GLFTSTFTLTVAPLFMMDFIPMISYGSSSSILSEKVKFPSFLRTVHSSQEVIQVIVKLLQYFKWHWVAFLY
               97.6% 28.0%
13 Fugu-T1R1
GPDSSSNSFTPATLLGAHLIPQISYEASNEMLSNKVLYPSFFRTIPSDKNQVAAMIQLLVRFNWTWIALLG!
14 Puffer-T1R1 97.6% 27.5%
GPDSSSKSFTPATLLGAYLVPQVSYEASNEMLSNKIFYPAFFRTIPSDKNQVAAMIQLLVRFNWTWVALLG:
15 Chicken-T1R1 78.9% 23.3%
                              -----
QISYEASLEMLSTKRFYPSFLRTIPSDGQQVKAIGLLLQRFGWTWVALVGSDNTYGRDG
16 Opossum-T1R1 97.0% 27.4%
GPDSTELTSISASLLSTFLVPQISYEATSMMFSEKQKYPSFLRTIPSDKHQVQMILMLLKKFGWSWISVIG:
17 Dog-T1R1
               97.3% 27.4%
GPDTTNHAATAAALLSPFLVPVISYEASSVMLGVKRYYPSFLRTIPSDKYOVEIMVLLLORFGWVWISLVG
               97.3% 27.6%
18 Human-T1R1
GPDSTNRAATTAALLSPFLVPMISYAASSETLSVKRQYPSFLRTIPNDKYQVETMVLLLQKFGWTWISLVG
  consensus/100%
  ......hhh.lh..htw.wl.hl.
  consensus/90%
G..psp.s.h.s.hh....hP.loYtu....hp.p..aPuhhRTl.ust..hthhh.ll..FtWpWl.hlh!
G.psop.s.h.uthhu.ahhP.1SYtAosphhus+.haPSFhRT1sSsp.phpsh1.LL.cFtWsWluhls!
  consensus/70%
                               GPpsSp.shssuphhuhaLhP0ISYuAoo-
hLSs+thaPSFhRT1PSDchQlpAhl.LL.cFsWsWluhlsSss-YGppG
                  COV
                      pid 241
                            . 320
         3
            100.0% 100.0%
                              MAIFLSAAOEEGVCVEYIEK-----
1 Medaka-V2R
FDRAEPEKLLKVVEVIRKSTARVIVAFLAHVEMNNLLEQLNVHNITGRQFI
              96.8% 23.8% VODFSKLAANKSICVAYOGLIP-----
2 Fugu-T1R3
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
               96.9% 23.7% LSLFSSLANARGICIAHEGLVPLPH----
6 Dog-T1R3
TSSLRLGTVQGLLHQVNQSSVQVVVLFSSTRAARTLFSYSIHCRLSPKVWV
 7 Human-T1R3
               97.1% 24.0%
                              LSIFSALAAARGICIAHEGLVPLPR----
ADDSRLGKVQDVLHQVNQSSVQVVLLFASVHAAHALFNYSISSRLSPKVWV
8 Opossum-T1R2 92.5% 24.9%
GHLFSEKLEGRDICVAFQESLPIPSPNRVVMPQDKRRMEGLVAKIRRSTAKVVVVLSLDLALYTFFEEVLR
9 Dog-T1R2
               96.4% 26.3%
SQLLNDRLATGDICIAFQETLPMPQPDQVVTEWERQRLEAIVGKLQQSSARVVVLFSPDLILHNFFREVLR(
10 Human-T1R2 96.8% 25.2%
GOLLGERVARRDICIAFOETLPTLOPNONMTSEERORLVTIVDKLOOSTARVVVVFSPDLTLYHFFNEVLR(
11 Fugu-T1R2 94.4% 28.1% LKLFIEKIKDTEICLAY------
THSLDSSHYLSVFNQIDAQRINLIVVFAPHWHAIPLVQAAIRHNVTGKVWI
12 Puffer-T1R2 94.4% 27.1% OKI FTEKTKNTDTCI AV------
THDLVSSDFLSIFQWIKSQKIVVIVVMAPEWSAKPLVKSAIQHNVTDKVWI
               97.6% 28.0% MOSLSQQAPEFNICIAYQGVIPG-----
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% VHLLEDLANOQEICIAYKDFVPI-----
LAQAADNTMQNMMVDINKFGAEVVVVFCNKRLARVFFEAVVLGNVTDKVWL
17 Dog-T1R1
                97.3% 27.4%
                              VQALEEQATQQGICIAFKDIIPF-----
{\tt SAQPGNERMQSMMYHLDRARTTVVVVFSSRQLARVFFESVVLAKLTAKVWI}
               97.3% 27.6%
                              VOALENOATGOGICIAFKDIMPF-----
18 Human-T1R1
SAQVGDERMQCLMRHLAQAGATVVVVFSSRQLARVFFESVVLTNLTGKVWV
```

```
consensus/100%
.t.h.t.h.t.tlClta......h.thh..l...th.hhlhh.....h..hh.....
  consensus/90%
.p.h.p.h.tttlClAa.....h.thh..l.ttthphlllhs...h.hh..sl.
  consensus/80%
hp.h.p.httpsIClAapthhP......htp.t.thh.slhttltpspspllVlFu.p..hp.hhp.sl.
  consensus/70%
hphhpphhsspsIClAapthlP......htp.s.tphpsllpplppopspVlVlFusc.thphhhptslp
                      pid 321
                  COV
                             4 400
1 Medaka-V2R
             100.0% 100.0%
GVEAWITADSLVTPTSFSVLGGSLGFAVQKTNISGLNTFLVEDFWETDFQCEENHIDVASKS------
2 Fugu-T1R3
               96.8% 23.8%
GSTSWTINDAVTSLPDIQTGWTILGFVEQTQSVDLLRAYTYALLNKLSEERAHTRSSAQNSNYPSNP----
               96.8% 25.6%
3 Puffer-T1R3
GSTAWTISERVFLLPNLHTVGTILGFAFTTQSLDLLRAYTHELLTKVSEEHAHTPPPVENLNDYSNS----(
4 Chicken-T1R3 96.3% 26.1%
GTEAWLLSDIAASIPNIQNIGTVLGFIMKASTVPGFQKYVANLLSSVQQDEFCQKSRGFYRHVSSDTLGTQ
 5 Opossum-T1R3 97.0% 24.7%
ASEAWLVSEQVTKLPGIQGVGTIMGFLLRGAPLPEFNDYVARCLAQAADKAFCDTLEEAFPNTEDDVVGPQ
               96.9% 23.7%
6 Dog-T1R3
ASEAWLTSDLVMTLPGMAEVGTVLGFLQQGAPIPEFPSYVQTCLALAADPAFCASLDAEQPGLEEHVVGPR
7 Human-T1R3
               97.1% 24.0%
ASEAWLTSDLVMGLPGMAQMGTVLGFLQRGAQLHEFPQYVKTHLALATDPAFCSALGEREQGLEEDVVGQR
8 Opossum-T1R2 92.5% 24.9%
                              ASESWSIDPVLHSFFSVRRAGTFLGITTPIVPIPGFSD-
FRIRRSEVRKPAMDGKHPQPTCNQE-----CD-----
9 Dog-T1R2
           96.4% 26.3%
                              ASESWAIDPVLHNLTELRQTGTFLGVTTQSVPIPGFSE-
FRIRRTPVRLPEPNRTSLEATCNQE-----CD-----
10 Human-T1R2
               96.8% 25.2% ASESWAIDPVLHNLTELRHLGTFLGITIQSVPIPGFSE-
FREWGPOAGPPPLSRTSOSYTCNOE-----CD-----
                94.4% 28.1% AGEAWSLNKELPKEKGIKNIGTVIGVSQPVVTIPGFEDF
11 Fugu-T1R2
VKKGNRCESTEOOFCNOIYN----CS-----
               94.4% 27.1%
                              AGEAWSLNKELPKEKGIKHIGTVIGVAOLYLNIPRFODF
12 Puffer-T1R2
VKKQNECESAEQQFCNRVCK----CS-----
13 Fugu-T1R1
                97.6% 28.0%
\textbf{GTEDWSPSSLISGIPGIHTIGTVIGVAVKYTIIPGFEKRLV} \textbf{EASLHQSNDGNASNVTANLSNTCLQ} -----!
               97.6% 27.5%
14 Puffer-T1R1
GTEDWSQSSLIAGIPGIHTIGTVIGVAIKYTVIPGFVERLAEASLQRSNEENASTVTVNPNNTCLQ-----
15 Chicken-T1R1 78.9% 23.3%
                               GSEDWSLAQTIWQVPGIQNIGSVIGISVEQAE-
PTMLKRLESWENARERAVSGSAGSTGVGGGNGASS---SDSVQLNCT
16 Opossum-T1R1 97.0% 27.4%
                              ATEDWSISSYITOVPGISRIGTVIGIAIKOROVLGMKE-
FEEAYAQAKNTSEASGGPAQDRGDHT-----GN-----
17 Dog-T1R1
               97.3% 27.4%
                              ASEDWAISRHISSLPRIWGIGTVLGVAIQQKLVPGLKE-
FEEAYVRAKKAAHRPCSRDSWCSSNQL----CR-----
                97.3% 27.6% ASEAWALSRHITGVPGIQRIGMVLGVAIQKRAVPGLKA-
18 Human-T1R1
FEEAYARADKKAPRPCHKGSWCSSNQL----CR-----
  consensus/100%
consensus/90%
uspsW..s..l.t..thtthGshlGh.....l..h.t.h.....ht....t.t....s......
  consensus/80%
uoEsW.hsp.1.thsslpphGThlGhh.p.h.lsth.p.h.ph...hpp.t.ttt..tt.ts......
  consensus/70%
uoEuWslsphlhplsslpp1GTl1GhshpttslPthpp.htphhstsppts.sss.ptt.sstp......
                      pid 401
                  COV
                             . 480
              100.0% 100.0%
                               -ENODLMKLRDYN--
1 Medaka-V2R
DDVEELRYSSNIYKAVYAVAHSLHSIMKCSDSQGC--DKTSEVKPWQVIEALKQVNFIIKNGEQV
               96.8% 23.8% -QCWN-LSPANISLVTDLVIQRKAFSVYAAIYSVAQALH
2 Fugu-T1R3
NSTACKNTSEVKIYPWKLLKTLRHTKVDING-TML
               96.8% 25.6%
                               -HCWN-LSPANISLDAEVAIQRSAFRVYAAIYSVAQALH
3 Puffer-T1R3
NSTACMKTSEVOIYPWKLLKALRNTTVDING-TML
4 Chicken-T1R3
                               -OCDH-ISLNDIS---STLSHSOIOPVYIAVYSVAYALH
               96.3% 26.1%
THOGC -- PRA-SIRSWOLLHFMNTVPFTVNG-OSF
                               -QCDD-ISHENIS---SGLQHHQTFAVYAAVYSVAHALH
 5 Opossum-T1R3
                97.0% 24.7%
TNSGC--FSNNRTRPWELVSKMYNLSFRARS-LTL
                96.9% 23.7%
                               -OCDH-VTLEAMS---AGLLHHOTFAAYAAVYGVAQALH
6 Dog-T1R3
NASGC--PPREPVRPWQLLENMYNLTFRVRG-LAL
7 Human-T1R3
                97.1% 24.0%
                               -QCDC-ITLQNVS---AGLNHHQTFSVYAAVYSVAQALH
{\tt NASGC--PAQDPV}{\tt KPWQLLENMYNLTFHVGG-LPL}
               92.5% 24.9%
                               -TCPD-AAESYNT-VLTLSGERVVYNVYLSVYIVAHALH
8 Opossum-T1R2
EAARC--SRD-EVYPWKLLQEIWKVNFTPAGPQDL
```

```
9 Dog-T1R2
                96.4% 26.3%
                               -TCOD-TTASFNS-ILMLSGERVVYNVYSAVYAVAHALH
TOAC--SKE-VVYPWOLLKEIWKVNFTLLG-HNV
10 Human-T1R2
                96.8% 25.2%
                               -NCLN-ATLSFNT-ILRLSGERVVYSVYSAVYAVAHALH
DKSTC--TKR-VVYPWQLLEEIWKVNFTLLD-HQI
               94.4% 28.1%
11 Fugu-T1R2
                               -OESA-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 -- ORK-RVYPWELLSRLKOVRFLMAN-SSV
14 Puffer-T1R1 97.6% 27.5%
                               -ELYS-LAEMNLP--LDNYDIASAVNVYKAVYAVAHALH
GSGEC--QRK-RVYPWELLSRLKQVQFPMAN-ASV
15 Chicken-T1R1 78.9% 23.3%
                               OHCPGCHLLADTP---DIYDIOASYNVYSAVYAVAHGLH
ASGVC--SKG-RVYPWOLLOKIKOVNFSLHK-SYI
16 Opossum-T1R1 97.0% 27.4%
                               -QHQA-LTANANT-ELSQFSMNAAYNVYAAVYAVAHGLH
PSGVC--TPG-KIYPWQLLAEIRKVNFTLQG-NPV
                              -ECQA-FTVQQMP-TLGAFSMSSAYNAYRAVYAAAHGLH
17 Dog-T1R1
              97.3% 27.4%
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..|
  consensus/90%
.p..t....s....p.s.ssY.AlYusApuLHphLtC..tt.C....t..l.P.tLltthhp.pl
  consensus/80%
.pp.s.ht.t..s...t...p.shslYtAVYuVApuLHphLtC.ssstC..spt..lhPWpLLpphhpspl
  consensus/70%
.ps.s.hshts.s...th.t.p.sasVYtAVYuVAHALHplLtC.ssusC..spt.plhPWpLLpplhpls
                      pid 481
                 COV
                  :
                            . 560
1 Medaka-V2R 100.0% 100.0% WFDSTGAVLAR-
YEVVNWQQRSTGSVHFEPVGYYDASLPPGQKFVLNTEAIMWP--GGSTKLPVSVCSESCRPGTYKVLE
                             EFDSNGNPNVG-YNLIELIWKN-STLEFVEVGSF--N--
2 Fugu-T1R3
               96.8% 23.8%
KILNINVSLFKWH--TETSEVPQSTCSAACGEGQVHRV-
 3 Puffer-T1R3
               96.8% 25.6%
                               KFDRNGNPNIG-YSVVELILKN-SSLEFLEVGSF--N--
KILDIKKSLFKWH--TENSEVPESTCSAACGEGQVHRV-
4 Chicken-T1R3
              96.3% 26.1% REDESHGTNSG-YKLIFWHWEN-GSLTHLPVGDY--O--
ESLYLNKSLIQFH--TTDQKEPTSECFRECEPGQIKQI-
5 Opossum-T1R3 97.0% 24.7%
                               KFDDNGNVDMI-YDLKLWVWHDNMDPELLTIGSF--Q--
GDLKLNRSQIRWH--SPGNQEPVSRCSRECEEGQVRRV-
                96.9% 23.7%
6 Dog-T1R3
                               OFDARGNVNMD-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-
               96.4% 26.3%
                               FFDKQGDVLMP-MEVIQWQWDL-SQNPFQSIASY----
9 Dog-T1R2
YPKLROLKAIHNISWH--TANNTIPVSMCSKDCHPGORKKP-
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
ISLTVDADAVEWHISGDSRSVPOSICSPPCEPGHKRLL-
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..1Gth..p....tl.hptptlpWH..s.spphP.S.CSttC
```

consensus/70%

```
pid 561
                  COV
                              . 640
1 Medaka-V2R
               100.0% 100.0%
                                RGKPVCCFHCLPCPDGEISNST-
DSNDCNQCPEEFWSNQIRDACVPKNVEFLSYTEDMSKILMFFTLFGVVLTVTVAVLF
                96.8% 23.8%
2 Fugu-T1R3
                                KGFHSCCFDCIDCLPGTYOAOD-
GDIQCTPCPPRQWSLARSSRCTDPIYDYLSWDTPEALLLTLAIVLVVLFMGSVVVVF
              96.8% 25.6%
                                KGFHSCCFDCIDCLPGTYOREK-
3 Puffer-T1R3
DDIOCTPCPPROWSLKRSTRCTDPTYDYLSWDTPEALLLTLAIVLVVLLKGAVVVLF
4 Chicken-T1R3 96.3% 26.1%
                                KGFHLCCYDCTDCPENTFCSSK-
DSSTCTPCLEHQWSPARSTQCYDRSERYLRWNEPLTAGLLISMSIIISLICLTAVLF
5 Opossum-T1R3 97.0% 24.7% KGFHSCCYDCLDCOAGSYRKNR-
DDLMCTSCASDOWSPDLSTOCFPRTIKFLGWGEPVVVVLLLLMVLAVGLSLGALGLF
6 Dog-T1R3
                96.9% 23.7%
                                KGFHSCCYDCVDCKAGTYORSP-
DDLLCTQCDQNQWSPDRSTRCFPRRLTFLAWGQPAVLVLLILLALALGLVLVALGLF
7 Human-T1R3 97.1% 24.0%
                                KGFHSCCYDCVDCEAGSYRONP-
DDIACTFCGQDEWSPERSTRCFRRRSRFLAWGEPAVLLLLLLLSLALGLVLAALGLF
8 Opossum-T1R2
               92.5% 24.9%
                                VGLHPCCFECVDCAPGTYHNLS-
EDFECQHCPLNEWSNAGAIQCYKRRLQYLEWQEPLTIIVVILATLGFLSTLAILIIF
               96.4% 26.3%
9 Dog-T1R2
VGIHSCCFECIDCLPGTFLNRTADEFDCQPCPSYEWSHRNDTSCFKRRLAFLEWHEPSTIFVVMLTILGFL!
10 Human-T1R2
                96.8% 25.2%
VGIHVCCFECIDCLPGTFLNHTEDEYECQACPNNEWSYQSETSCFKRQLVFLEWHEAPTIAVALLAALGFL!
11 Fugu-T1R2
               94.4% 28.1%
EGIHOCCFKCEICPNGTFVNRTKDPFNCIDCEEHOWSAAGSTSCLPRTVEYVAFTDTAAVVILVGAGLLLA
              94.4% 27.1%
12 Puffer-T1R2
EGIHRCCFTCEICPNGTYVNITADPYSCLPCEKHQWSTAGSTSCLPRTVEWVPFTDPAAVVILAGACLLVA
               97.6% 28.0% TGQHSCCFDCQACSEATFLNTS-
13 Fugu-T1R1
DPTSCODCLPEEWAPKSSERCLKRTPLLLEWDHHLSIALLFFLACCLLMTSSSAVIL
14 Puffer-T1R1
                97.6% 27.5% TGOHECCFDCOACAEATFLNES-
DPTTCQTCLPEEWAPKSSQRCLKRTRLLLEWDHPMSVALLFFLVCCLLMTSSSAVIL
15 Chicken-T1R1 78.9% 23.3% QNRHRCCFSCVACPAGTFLNRT-
ALYACOACGRDEWAPVGSETCFNRTVEFLSWADPLSWVLLIPTVLLLLLMVGLAVLF
16 Opossum-T1R1 97.0% 27.4%
                                VGLHHCCFECVLCAAGTFLNSS-
DQYTCQPCQKEEWSPEGSQTCFNCTTEFLAWDHPVSLVLLGANTLLLLLLTGVASLF
               97.3% 27.4%
17 Dog-T1R1
                                VGFYHCCFECVPCEAGTFLNKS-
DLHSCOPCGKEEWAPEGSESCFLRTVVFLTWHEPISWVLLAANTLLLLLVAGTAGLF
18 Human-T1R1
                97.3% 27.6%
                                TGFHHCCFECVPCGAGTFLNKS-
DLYRCQPCGKEEWAPEGSQTCFPRTVVFLALREHTSWVLLAANTLLLLLLGTAGLF
  consensus/100%
.s...CCapC..C..sph.t...t...C..C....Wu...t.tCh.....hl.htp..shhlhh...hhh.
  consensus/90%
.G.a.CCapC..C..uoa.p...s...C..C..ppWu.t.pppCh..p..hltatp..shhlhh...hhhh
  consensus/80%
hGhH.CCacC.sC.sGTa.pps.D.htCp.C..ppWu.ttuppCh.+ph.aLtatcs.shhlhhhhslhlhl
                                pGhHpCCF-
ClsC.sGTahsps.D.hpCpsC.pcpWSsttSppCh.RphtaLtWscPhsllLlhhhsLhlhhhhhuhhslF
                        pid 641
                  COV
          7
                              . 720
1 Medaka-V2R
               100.0% 100.0%
LINRDTPLVKANNSELSFLLLFSLSLCFLCSLTFIGRPTEWSCMLRHTAFGITFVLCISCILGKTIVVLMA
                96.8% 23.8%
2 Fugu-T1R3
VNHRETVLVTASGGTLSIVVLLGLMGACLSLLLFLGQPGDTVCRLQLPLISAFQTVPLSIIMSISLQIFFV!
3 Puffer-T1R3 96.8% 25.6%
LKHRGTVLVAASGGTLSFVVLLGLMGACLSLLLFLGOPGDTVCRLOLPLVSIFOTVPLCIIMSISLOIFFV!
4 Chicken-T1R3
               96.3% 26.1%
VKNLNTPLVQAAGGNLNLFALFALTLMCLSSCLFIGKPTNNLCMMQQIVCALCLNACFSTFFIKSLEIVLL'
5 Opossum-T1R3 97.0% 24.7%
SYHWGSPLVRASGGSLSCFGLGCLTLVSLSVLHFPGRPSWFSCLAQQPLVHLPLTGCLSTLFLKAAEAFLA!
                96.9% 23.7%
6 Dog-T1R3
IRHRDSPLVQASGGPRACFGLACLGLVCLSVLLFPGQPGPASCLAQQPLLHLPLTGCLSTLFLQAAQIFVG
7 Human-T1R3
               97.1% 24.0%
VHHRDSPLVOASGGPLACFGLVCLGLVCLSVLLFPGOPSPARCLAOOPLSHLPLTGCLSTLFLOAAEIFVE:
8 Opossum-T1R2
               92.5% 24.9%
WVHFQTPMVRSAGGRMCFLMLTPLLVAYVSVPVYIGRPTVFTCLYRQTLFTLCFTVCIACINVRSFQIVCI
                96.4% 26.3%
9 Dog-T1R2
WRHLHTPVVRSAGGPMCFLMLVPLLLAYAMVPMYIGOPTFFSCLWROTFFTLCFTICISCITVRSF0IVCI
10 Human-T1R2
                96.8% 25.2%
WRHFQTPIVRSAGGPMCFLMLTLLLVAYMVVPVYVGPPKVSTCLCRQALFPLCFTICISCIAVRSFQIVCAL
11 Fugu-T1R2
                94.4% 28.1%
AINYNTPVVRSAGGPMCFLILGCLSLCSISIFFFFDKPTVAFCVLRFLPFVLFYTVCLACFVVRSF0IVSI
                94.4% 27.1%
12 Puffer-T1R2
```

```
AVNYNTPVVRSAGGPMCFLILGCLSLCSISVFFYFERPTEAFCILRFMPFLLFYAVCLACFAVRSFQIVII
               97.6% 28.0%
13 Fugu-T1R1
LLNINTPVAKSAGGRTCLLMLAALTAAAMSSLCHFGQPSPLACILKQPLFTFSFTVCLACITVRSLQVVCI
                97.6% 27.5%
14 Puffer-T1R1
LLNINTPVAKSAGGRTCLLMLAALTAAAMSSLCHFGQPSPLACMLKQPLFTFSFTVCLACIAVRSLQVVCI
15 Chicken-T1R1
               78.9% 23.3%
ARNASTPVVRSAGGKMCFLMLGALACACSSIFFNFGEPTWLSCLVRIPLFTISFAVFLSCVATRCFQIVCI
16 Opossum-T1R1
                97.0% 27.4%
AONLETPVVRSAGGRMCFLMLGSLAGAGCSPYCFLGEPTLLTCLLROSLFALCFAVFLSCLTIRSFOLVFI
                97.3% 27.4%
17 Dog-T1R1
AWHLDTPVVRSAGGRLCFFMLGSLAGGSCGLYGFFGEPTLATCLLRQGLFALGFAIFLSCLTIRSFQLVFI
18 Human-T1R1
                 97.3% 27.6%
AWHLDTPVVRSAGGRLCFLMLGSLAAGSGSLYGFFGEPTRPACLLROALFALGFTIFLSCLTVRSF0LIII
  consensus/100%
..phtoshstussu.hshhhLh.L.hh....h..t.Pt...Chhp....h..sh.hshh...sh.hh..
  consensus/90%
h.phtoslspuuGG.hshhhLhsL.hs.hs..ha.spPs...Chhp...h.h..sh.luhhh..shplhhh
  consensus/80%
hhphpTPlVpuuGG.hshhhLhsLhhs.hu.hhahGpPs.h.Chhp.shhtl.hshhluslhhpuhplhhh
  consensus/70%
hhphsTPlV+uuGG.hshlhLssLshsshSlhhahGpPo.hsClhppsLhslshslsLuslhl+ShQllhl
                  cov
                        pid 721
                              8 800
1 Medaka-V2R
               100.0% 100.0%
                                NVMKWFGPVQQRLTVFSLTIIQVIICILWLTINPPFP--
FREKIILECSLGSSLGFWAVLGYIGILALLCFVL
                                SYLHVLRGPGTWLLLLTCCAVQAGICGWFVQDGPSLSEY
2 Fugu-T1R3
                 96.8% 23.8%
DFVRSFLACPVSPLSGFALMQGFSAAMALMSFMC
               96.8% 25.6%
                               SYLHVLRGPGTWLLLLICCAVQAGICGWFVQEGPSLSEY
3 Puffer-T1R3
DFVRSFLACPVSSLSGFGLMQGLITVMALISFMC
                               TALRWVTPSRSWLLVALCLLTECLFCFCYLHLGPDYV--
4 Chicken-T1R3
                96.3% 26.1%
LPTEVLLMCSTASWPAFALMHGYNGCLAFVCFLC
                               LHG-WLHGTRAWLLVALLLLAEGALCTWYLLAFPQAL--
5 Opossum-T1R3
               97.0% 24.7%
LPREALVHCRVSSWLSFGVVHAVNVALAFLCFLG
6 Dog-T1R3
                 96.9% 23.7%
                                QLRRCLQGPWAWLLVLLALLAEAALCAWYLVAFPPEV - -
LPTQVLVHCRVRSWISFGLVHAINAMLAFLCFLG
               97 1% 24 0%
                                RLSGCLRGPWAWLVVLLAMLVEVALCTWYLVAFPPEV--
7 Human-T1R3
LPTEALVHCRTRSWVSFGLAHATNATLAFLCFLG
                                AYSYWVKYNGPYVFVVLITLLKVGIVVSSAMAIPTSP--
8 Opossum-T1R2
              92.5% 24.9%
TILYDNENPQIMILNCNINSRKAILFNTSLDLILSIFGFSF
9 Dog-T1R2
                96.4% 26.3%
                                AYGYWVRCHGPYVFVASFMVLKVVIVAGNVLAMTANP--
TARPDPDDPNIMVLSC--NYRRALLFNTSLDLLLSVAGFSF
                96.8% 25.2%
10 Human-T1R2
                                AYSYWVRYOGPYVSMAFITVLKMVIVVIGMLATGLSP--
TTRTDPDDPKITIVSCNPNYRNSLLFNTSLDLLLSVVGFSF
               94.4% 28.1%
                               AHSWWMKYHGOWLVISVTFVIOAFLIIVSVSSDPPSP--
11 Fugu-T1R2
YPDKIILGCFMNLKTSS-VSFVLLLLLCLLCFIF
                94.4% 27.1%
                                VHSWWMKYHGQWLVISVAFVLQAVLIVIAFSSDPPLP--
12 Puffer-T1R2
YPDKIILGCDVNLNMAS--TSFFFLLLCILCFTF
                                AYDKWSKKQGPEVTIFIVSVTILCISVLRVAVGPPEP--
13 Fugu-T1R1
                97.6% 28.0%
YMDSIVLECSNTLSPGSFIELCYVCVLSVLCFFF
14 Puffer-T1R1
                97.6% 27.5%
                                AYDRWAKNHGPEATIFIASAAILCVSVLRVAVGPPQP--
YTDSIVLECSNTLSPGSFVELCYVSLLSAVCFVF
                                LHEAWORRGGPALFIAGSTVAOAVLSVAAVASGPAGP--
15 Chicken-T1R1 78.9% 23.3%
AAERVVLECGAGSAPGETAAILYNLLLSLGCFAL
                                LYHTWVHNHGSRTFVAVSSTIQLLICSVWLVAWTPLP--
16 Opossum-T1R1
                97.0% 27.4%
FPELVVLECSKENSPGYMLSILYTWLLSVSCFAC
                97.3% 27.4%
                                FYOAWVONHGPRI EVVTSSMAOLI TCVTWI AVWTPI P--
17 Dog-T1R1
FPQLVVLDCTEANSPGFMVAFAYNGLLSVSAFAC
                 97.3% 27.6%
                                FYHAWVONHGAGLFVMISSAAOLLICLTWLVVWTPLP--
18 Human-T1R1
FPHLVMLECTETNSLGFILAFLYNGLLSISAFAC
  consensus/100%
consensus/90%
.h.hh.p..h..hhl....hh.hhl.hh.h..s..s...ph.......hltC..t...u..h...h.hl
  consensus/80%
.h.hhhp..tshlhlhh..hhphhlshhhl.shss.s..htchp....p.hlltC..s...u.hh.hhh.hl
  consensus/70%
hathWh+.tGshlhlhlshhhphhlsshhlhshPs.s..hpchp..hsp.hlLpCs.s...uhhhshshshl
                        pid 801
                  COV
1 Medaka-V2R
               100.0% 100.0%
AFLARKLPDNFNEAKFITFSMVIFSAVWITFIPAYVSSPGKLTVAVEIFAILASSYGILFCIFAPKCYILA
```

2 Fugu-T1R3

96.8% 23.8%

```
3 Puffer-T1R3 96.8% 25.6%
TFMATKPLHQYNLARDITFSSLIYCIIWVTFIPIYVGLEEKFKSIVYVSFILTSNLGMVAMYYIPKCYLLLI
 4 Chicken-T1R3 96.3% 26.1%
TFMVQSSGKKYNMARGITFTILIYFIIWIFFITVFATLRTVLMSVIQISTILMVSLGIVGTYYIPKCYILLI
5 Opossum-T1R3 97.0% 24.7%
TFMVQSQAGRYNLARGITFAMLVYFIIWLSFVPLFTNVHKVYQPAMQMTAILLSALGILAAFYLPKCYLLLI
              96.9% 23.7%
6 Dog-T1R3
TFLVOSRPGRYNGARGLTFAMLAYFITWISFVPLFANVHVAYOPTVOMAAILLCALGILATFHLPKCYLLL(
7 Human-T1R3 97.1% 24.0%
TFLVRSQPGRYNRARGLTFAMLAYFITWVSFVPLLANVQVVLRPAVQMGALLLCVLGILAAFHLPRCYLLMI
8 Opossum-T1R2 92.5% 24.9%
SYMGKELPTNYNEAKFITLSMTFYFASSAFLCTFMSVYOGVLLTIFDVSITVINLLSISMGYFGPKCYMILI
9 Dog-T1R2 96.4% 26.3%
AYMGKELPTNYNEAKFITLCMTFYFTSSVSLCTFMSVYDGVLVTILDLLITVLNLLGISFGYFGPKCYMVLI
10 Human-T1R2 96.8% 25.2%
AYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFMSAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMILI
              94.4% 28.1%
11 Fugu-T1R2
SYMGKDLPKNYNEAKAITFCLLLLILTWIIFTTASLLYQGKYIHSLNALAVLSSIYSFLLWYFLPKCYIII
12 Puffer-T1R2 94.4% 27.1%
SYMGKDLPKNYNEAKAITFCLLLLILTWIIFATVIMLYHGKYIHTLNALAVLSSAYCFLLWYFLPKCYIII
             97.6% 28.0%
13 Fugu-T1R1
SYMGKDLPANYNEAKCVTFSLMVYMISWISFFTVYLISRGPFTVAAYVCATLVSVLAFFGGYFLPKIYIIVI
14 Puffer-T1R1 97.6% 27.5%
SYMGKDLPANYNEAKCVTFSLMVYMISWISFFTVYLISRGPFTMAAYVCATLVSVLAFFGGYFLPKIYIIVI
15 Chicken-T1R1 78.9% 23.3%
SYAGKDLPADYNEAKCLTCSLLLHLACSAAVLCTRSYFRGRSAAVTAALGALGTLAPLLSGYFLPKGFVVLI
16 Opossum-T1R1 97.0% 27.4%
TYLGKDLPENYNEAKCMTFSLLFYFISWIGLATSSSIYNGKYMPAINMLVILSSLSGVFSGYFLPKCYVIL
17 Dog-T1R1
             97.3% 27.4%
SYLGKDLPENYNEAKCVTFSLLLNFVSWIGFFTTASVYQGKYLPAVNVLAALSSLSSGFSGYFLPKCYVIL
18 Human-T1R1
             97.3% 27.6%
{\tt SYLGKDLPENYNEAKCVTFSLLFNFVSWIAFFTTASVYDGKYLPAANMMAGLSSLSSGFGGYFLPKCYVIL} \\
  consensus/100%
sahspp..tpaN.A+.hThs.hh..h..h.hhs.......h.h.hhl.s..sh..hhahP+hahlh
  consensus/90%
sahspp..tpYN.A+.1Ths.hh.hh..h.hhsh....p..h..hh.h.hhl.s..sh..haahPKhYhlhl
  consensus/80%
oahspp.stpYN.A+h1Thshhhhhh..1.hhshh..hpshhhshhth.hhL.s.huhhhsaahPKCYh11
  consensus/70%
oahu+chPtpYNcA+s1TFuhlhahlsWlsFhshhshhpshhhsshphhshLhshhuhhhsYalPKCY111
                cov
                     pid 881
            100.0% 100.0% SM------LGKS-----
1 Medaka-V2R
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----
              97.1% 24.0%
7 Human-T1R3
                            FFLGGGPGDAQGQNDGNTGNQGKHE--
8 Opossum-T1R2 92.5% 24.9%
                             YFNNVIQGYTMRKE-----
              96.4% 26.3%
                            YFSSMIQGYTMGKD-----
9 Dog-T1R2
             96.8% 25.2% YFNSMIQGYTMRRD-----
10 Human-T1R2
11 Fugu-T1R2
             94.4% 28.1% YFQGLIQDYTK-----
12 Puffer-T1R2 94.4% 27.1% YFQGLIQDYTK------
97.3% 27.4% HFQASIQDYTRRCGST-----
17 Dog-T1R1
18 Human-T1R1 97.3% 27.6% HFQASIQDYTRRCGST-----
  consensus/100%
                            .h.....
  consensus/90%
                           hF.....
  consensus/80%
                            aF...h...s.....
  consensus/70%
                             aFpt.lp..shtpt.....
```

TFMATKPLHQYNLARDITFSSLIYCVIWVTFIPIYIGLEEKRRAIIHVSFILASDLGLVAVYYIPKCYFLLI

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preservation				

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