File: /media/morpheus/disk1/fst/pep_msa/DYNE2E:IT.ps Feb 1 12:05:12 2022 Page 1 of 7

Dan torral alasta		WDUGOED GGLEDT TE	Guida a Baranda da anta a	25
Pan_troglodytes		MPHSQTPCGARRLIL	GWSLLRACDVCGSQAVDDAQ	35
Macaca_mulatta		MKLSGKLQKL	KWKKEESMEVKVMELKL	27
Homo_sapiens		MPSET	LWEIAKAEVEK	16
Mus_musculus		·M <mark>PS</mark> ET	LWEIAK	11
Rattus_norvegicus		·M <mark>PS</mark> E <mark>T</mark>	LW <mark>E</mark> IAK	11
<pre>Heterocephalus_glaber</pre>				11
Equus_caballus				11
Bos_taurus		· <mark>MPS</mark> E <mark>T</mark>	LWEIAK	11
Canis_lupus_familiaris		·M <mark>PS</mark> ET	LWEIAK	11
Callithrix_jacchus				11
Xenopus tropicalis				17
Rhinatrema bivittatum	MLRGSHRNCYKRARGOSSLRETFTK	MPKASDN	LWDIALAEVO	42
Chelonia mydas				13
Pavo muticus				14
Pavo cristatus		ТСТТ	T.WDTAPDEVE	14
Gallus gallus		MDYACDT	I WD I A BDEVE	17
Anas_platyrhynchos		MEI COCR	WDI CUBERI C	17
Anas_platyrnynchos				1/
	120		50 60	
Pan_troglodytes	ARDYFRSRTFGDELDHKASSPQGPF			95
Macaca_mulatta	EKNLFSS	LAVKM <mark>GK</mark> QE	KYFLIENR-	51
Homo sapiens	-RGINGS	<mark></mark> - EG D G A	EIA	30
Mus musculus			AEVEKRR	18
Rattus_norvegicus			AEVEKRR	18
Heterocephalus_glaber			AEVERRG	18
Equus caballus			AEVEKRG	18
Bos taurus			AEVEKRG	18
Canis lunus familiaris			AEVEKB-	17
Callithrix_jacchus			AEVEKKC	18
Xenopus tropicalis			CVENAC	23
Rhinatrema bivittatum			WENAG	47
			KENV-	
Chelonia_mydas				20
Pavo_muticus			KRENSG	20
Pavo_cristatus				20
Gallus_gallus			KRENNG	23
Anas_platyrhynchos				23
	7080	90100	110120	
	: :		*: . :* *	
Pan_troglodytes	IN <mark>GSEGDG</mark> AEIAEKSVFFI <mark>GS</mark>		KNG-GKTTIILRCLDR	131
Macaca_mulatta	VMLIYYECL			75
Homo_sapiens	EKFVFFIGS		KNG-GKTTIILRCLDR	54
Mus musculus	SHGSEGDGAEIGEKSVFFIGS		KNG-GKTTIILRCLDR	54
Rattus norvegicus	CHGSDGDGMEIGEKSVFFIGS		KNG-GKTTIILRCLDR	54
Heterocephalus glaber	SNGSEGDGVGIGDKSVFFIGS			54
Equus caballus	SNGSESDGVEIGEKSVFFIGS			54
Bos taurus	SSENEGDGAEIGEKSVFFIGS		KNG-GKTTTTI.RCI.DR	54
Canis lupus familiaris	GSEGDGLEIGEKSVFFIGS		KNG-GKTTTTI.PCI.DP	51
Callithrix jacchus	INGSEGDGVEFGEKSVFFIGS		KNA-GKTTTTT.PCT.DP	5 4
Xenopus_tropicalis	DGNEEVEENSERSVFFIGN		WAL CATTITUDE	57
Rhinatrema bivittatum	DGKEDGDGVEIWERSVFFVGN		KNG-GKTTTTLRCLDR	83
<u>-</u>	NLEGNGDGVEVWEKSLLFMGN		KNG-GKTTTTLKCLDK	56
Chelonia_mydas	DDGKRVEVWEKSVLFMGS		KNG-GKTTIILKCLDR	
Pavo_muticus	DDGKRVEVWEKSVLFMGS DDGKRVEVWEKSVLFMGS		KNG-GKTTIILRCLER	53
Pavo_cristatus	DDGKKVEVWEKSVLFMGS		KNG-GKTTIILRCLER	53
Gallus_gallus	DD <mark>G</mark> KRVEVC <mark>EKS</mark> VLFMGS			56
Anas_platyrhynchos	TGTGSGGARAVVRDTVRFWGAPVWS			83
	130140	150160	170180	

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	: .:.: : *:	:		
Pan troglodytes	DEPPKPTLALEYTYGR-	<mark>R</mark> AKGHN		153
Macaca mulatta	DEPPKPTLALEYTYGR-	RAKGHN		97
Homo_sapiens	DEPPKPTLALEYTYGR-	RAKGHN		76
Mus musculus	DESAKPTLALEYTYGR-	KTKGHN		76
Rattus_norvegicus	DEPAKETLALEYTYGR-	K <mark>TKGHN</mark>		76
Heterocephalus glaber	DEPAKETLALEYTYGR-	<mark>RAKGHNTE</mark> FWCVLRV <mark>G</mark> V	EKGECLTVKKELTEGRGFCC	107
Equus_caballus	DEPPKPTLALEYTYGR-	KAKGHN		76
Bos taurus	DEPPKPTLALEYTYGR-	RTKGHN		76
Canis_lupus_familiaris	DEPPKPTLALEYTYGR-	RAKGHN		73
Callithrix_jacchus	DEPPKSTLALEYTYGR-	RAKGHN		76
Xenopus_tropicalis	DEADKOTIALEVTECE -	RAKGHN		79
Rhinatrema bivittatum	DEDDKOTI ALEVTECE -	RAKGHN		105
Chelonia mydas	DETEKNTIALEVTECH-	RAKGHN		78
Pavo muticus	FEIDKDTIVI.EVTECD	RARR		73
Pavo_cristatus	EETDEDTIME EVTECD	RARR		73
Gallus_gallus	EEVENDEDTI VI EVTECE	RARR		76
Anas_platyrhynchos	NYCCODADDDDDCCCC	GPAGGERCPRPGKDHYYTEV		120
Anas_pracyrnynchos		200210220		120
		200210220	230240	
			::::*****	
		** ** :** :**		000
Pan_troglodytes		GGTSLLDLISIPITSDTLR		202
Macaca_mulatta		GGTSLLDLISVPITSDTLR		146
Homo_sapiens		GGTSLL <mark>D</mark> LISI <mark>P</mark> ITGDTLR		125
Mus_musculus		<mark>GGTS</mark> LL <mark>D</mark> LISI <mark>P</mark> ITVDTLR		125
Rattus_norvegicus		<mark>:GGTS</mark> LL <mark>D</mark> LI <mark>S</mark> IPITVDTLR		125
Heterocephalus_glaber		<mark>:GGTS</mark> LL <mark>D</mark> LIS <mark>IP</mark> ITSDTLR		161
Equus_caballus		GGTSLL <mark>D</mark> LISIPITSDTLR		125
Bos_taurus		<mark>:GGTS</mark> LL <mark>D</mark> LI <mark>SIPITSDT</mark> LRYFYF		131
		<mark>:GGTS</mark> LL <mark>D</mark> LI <mark>SIP</mark> ITSDNLR		122
Callithrix_jacchus		<mark>:GGIS</mark> LL <mark>D</mark> LI <mark>S</mark> IPITSD <mark>T</mark> LR		125
Xenopus_tropicalis		<mark>:GGTS</mark> LL <mark>D</mark> LIQI <mark>P</mark> ITSDNLM		128
Rhinatrema_bivittatum		<mark>GGISLLD</mark> LIRI <mark>PIT</mark> LD <mark>SIR</mark>		154
Chelonia_mydas		<mark>GGTS</mark> LL <mark>D</mark> LICI <mark>P</mark> ITNDNIR		127
Pavo_muticus		<mark>GGTS</mark> LL <mark>D</mark> LIRI <mark>P</mark> ITVNNIR		124
Pavo_cristatus		<mark>GGTS</mark> LL <mark>D</mark> LIRI <mark>P</mark> ITVNNIR		124
Gallus_gallus		<mark>GGTS</mark> LL <mark>E</mark> LIRI <mark>P</mark> ITVNNIR		127
Anas_platyrhynchos		GGTSLQELIQI <mark>P</mark> ITSNNIR		171
	250	260270280	300	
	:*:.**:. : :::*:	: :: :::*:: . :	:**** :::*** **:* *	
Pan_troglodytes		MKL <mark>GKTN</mark> AKAV <mark>SEMRQK</mark> IW <mark>NN</mark> MQ		262
Macaca_mulatta	TMENLLQATKSHVDKMI	MKL <mark>GKTNPKAASEMRQK</mark> IW <mark>NN</mark> MQ	KDHPDRELIDPFPVPLVIIG	206
Homo_sapiens	TMENLLQATKSHVDKVI	MKL <mark>GKTN</mark> AKAV <mark>SEMRQK</mark> IW <mark>NN</mark> MP	KD <mark>HP</mark> DHELIDPFPVPLVIIG	185
Mus musculus	TMENLLQATKSHVDKVI	MKLGKTSSKASAEMRQRMWSVVQ	KDHPDRELIDPFP1PLVI1G	185
Rattus norvegicus		MKLGKANSKASSEMRORMWSVMQ		185
Heterocephalus_glaber		MKLGRTNSKAASEMROKIWSKMO		221
Equus_caballus	TMENLL QATKSHVNKVI	MKLGKKNSKASSEMROKIWSNMQ	KDHPDREIIDPFPIPLVIIG	185
Bos taurus	TMENLL QATKLNIDKVI	MKLGKKNSKAASEMRQKMWSNMQ	KDHPDRELLDPFPIPLVIIG	191
Canis_lupus_familiaris		MKLGKTNSKAVSEMROKIWSNMQ		182
Callithrix jacchus		MKLGKMNSKAVSEMROKIWNNMO		185
Xenopus_tropicalis		TGIAKNS <mark>SKIANQIKOKLW</mark> QTIP		188
Rhinatrema bivittatum		IDMGKK <mark>NSK</mark> IANEIKOKMWKSMO		214
Chelonia_mydas		TKLGKTNPKVATEIKQRMWNNMP		187
Pavo muticus		AKLGKADPEVAAEMKOKMONNLO		184
Pavo_cristatus		AKLGKADPEVAAEMKQKMQNNLQ		184
Gallus_gallus		AKLEKTOPEVAAEIKQKMQNNLQ		187
Anas_platyrhynchos		AKLEKTNPEVATEIKQRMRNSLQ		231
		320330340		

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Pan troglodytes	SKYDVFQDFESEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGIDK	320
Macaca_mulatta	SKYDIFQDFESEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGIDK	264
Homo_sapiens	SKYDVFODFESEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINOLAFGIDK	243
Mus musculus	SKYDIFQDFDPEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGIDK	243
Rattus norvegicus	SKYDIFQDFDPEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKMRGVINQLAFGIDK	243
Heterocephalus_glaber	SKYDIFQDFDSEKRKAICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGIDK	279
Equus_caballus	SKYDIFQDFDSEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGIDK	243
Bos_taurus	SKYDIFQDFDSEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGINK	249
Canis_lupus_familiaris	SKYDIFQDFDSEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKVRGVINQLAFGIDK	240
Callithrix_jacchus	SKYDIFQDFESEKRKVICKTLRFVAHYYGASLMFTSKSEALLLKIRGVINQLAFGIDK	243
Xenopus_tropicalis	SKYDIFQDFDSEIRKIICKTLRFVAHYYGASLLFTSKSDALMLKGVTRSFINHLAFGLDK	248
Rhinatrema_bivittatum	SKYDIFQDFDSEKRKVICKTLRFVAHYYGASLMFTSKSEVHMLKTRALINHLAFGLEK	272
Chelonia_mydas	SKYDIFHEFDSEMRKIMCKTLRFVSHYYGASLVFTSKSEALLLKARVLINHLAFGFDR	245
Pavo_muticus	SKYDIFHEFDSEMRKIISRTLRFVSHYYGASLVFTSKSEALLLKARALINHLAFGYDR	242
Pavo_cristatus	SKYDIFHEFDSEMRKIISRTLRFVSHYYGASLVFTSKSEALLLKARALINHLAFGYDR	242
Gallus_gallus	SKYDIFHEFDSEMRKIISRTLRFVSHYYGASLVFTSKSEALLLKARALINHLAFGYDR	245
Anas_platyrhynchos	SKYDIFHEFDSEMRKTVSKTLRFISHYYGASLVFTSKSEALQLKARVLINHLAFGYER370380390400410420	289
	370420	
	:::* .:* **: **.	
Pan troglodytes	SKSICVDONKPLFITAGLDSFGQIGSPPVPENDIGKLHAHSP	362
Macaca_mulatta	SKSICVDONKPLFITAGLDSFSOIGSPPVPENDIGKLHAHSP	306
Homo sapiens	SKSICVDQNKPLFITAGLDSFGQIGSPPVPENDIGKLHAHSP	285
Mus musculus	SKSICVDQNKPLFITAGLDSLCQIGSPPVPDSDIGKLQAHSP	285
Rattus_norvegicus	SKSMCVDQNKPLFITAGLDSLCQIGSPPVPDSDIGKLQAHSP	285
Heterocephalus_glaber	SKSICVDQNKPLFITAGLDSLCQIGPPPVPDNDIGKFHAHSP	321
Equus_caballus	SKSICVDQNKPLFITAGLDSLSQIGSPPVPDNDIGKLHARSP	285
Bos_taurus	SKSICVDQNKPLFITAGLDSLSQIGPPPLPDNDIGKLHARSP	291
Canis_lupus_familiaris	SKSICVDQNKPLFITAGLDSLSQIGSPPIPDNDIGKLHAHSP	282
Callithrix_jacchus	SKSICVDQNKPLFITAGLDSFSQIAYLLSRDLFTNPFLSSRTDYLHLQKARGKAGRNRRY	303
Xenopus_tropicalis	SKSLSIDHNKPLIIPAGSDSFSQIGSPPASDTDISQFRVRTP	290
Rhinatrema_bivittatum	SKSLSVDINKPLFIPAGLDSLSQIGSPSTSERDIGQIHARTP	314
Chelonia_mydas	SKSVSVDQNKPLFIPAGLDSLNQIGPPPASDSDIGKLHAHTP	287
Pavo_muticus	SKSVSVDHSKPLFIPAGLDSLSQIGPPPTSDSSIGKMRANTP	284
Pavo_cristatus	SKSVSVDHSKPLFIPAGLDSLSQIGPPPTSDSSIGKMRANTP	284
Gallus_gallus	SKSVSVDHSKPLFIPAGLDSLSQIGPPPTSDSNIGKMRANTP	287
Anas_platyrhynchos	SKSVSVDHNKPLFIPAGMDSLSQIGPPPTSDSDIGKMRANTP	331
	430440450460470480	
	.*: :: ::** . * :	
Pan troglodytes	MELWKKVYEKLFPPKSINMLKDIKDPARDPQYAESEVDEMRIQ	405
Macaca mulatta	MELWKKVYEKLFPPKSINTLKNIKDPARDPQYAESEVDEMRIQ	349
Homo_sapiens	MELWKKVYEKLFPPKSINTLKDIKDPARDPQYAENEVDEMRIQ	328
Mus_musculus	MELWKKVYDKLFPPKSTGTLKAVQDPARDPQYAESEVDEMRVQ	328
Rattus_norvegicus	MELWKKVYEKLFPPKSTSTLKAIQDPARDPQYAESEVDEMRVQ	328
<pre>Heterocephalus_glaber</pre>	MELWKKVYEKLFPPKRINTLKDVKDPARDPQYAESEVDEMRIQ	364
Equus_caballus	MELWKKVYERLFPPKNTNTLKDIKDPARDPQYAESEVDEMRIQ	328
Bos_taurus	MDLWKKVYEKLFPPKSINTLKDVKDPAKDPQYAESEVDEMRIQ	334
	MDLWKKVYERVFPPKSTNTLKHIKDPARDPQYAEGEVDEMRIQ	325
Callithrix_jacchus	SYGNEF CFQT SLIRL CYENGNKTIPLQKNKLHCRSEDDLWTTIPEESGEGVDGRDEVLTH	363
Xenopus_tropicalis	melwkkvfeknfppkntndfketrdpakdpqyseaevdamral	333
Rhinatrema_bivittatum	IELWKKMYERTFPPKNISDLKEVKDPARDPQYAENEVDMMRAQ	357
Chelonia_mydas	VDLWKKIYEKTFPPKSTTDLKDVNDPAQDPQYAEYEVDAMRAQ	330
Pavo_muticus	LELWKKVFEKTFPPKSVGDLQDSKDPAQDSQYAEYEVDVMRAQ	327
Pavo_cristatus	LELWKKVFEKTFPPKSVGDLQDSKDPAQDSQYAEYEVDVMRAQ	327
Gallus_gallus	LELWKKVFEKTFPPRSFSDLQDSKDPAQDSQYAEYEVDVMRAQ	330
Anas_platyrhynchos	LELWKKVFEKTFPPESFSDSQATKDPGQDSQYAEHEVDVMRAQ490500510520530540	374

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		•	: .	
Pan troglodytes	KD0	-AHLRR <mark>YP</mark> I	KKQDKTSCVADNQDYFQVT-KH	437
Macaca mulatta			KKQDKTSRVGDNQDYFQGG-IA	381
Homo_sapiens	KD	-L <mark>ELEQY</mark>	KRSS <mark>SKSWKQIELD</mark> S	351
Mus musculus	KD	- <mark>QELE</mark> HY	KRSS <mark>SKTWKQIELD</mark> S	351
Rattus_norvegicus			KRSS <mark>SKTWKQIELD</mark> S	351
Heterocephalus_glaber			KRNA <mark>SKSWKQIELD</mark> S	387
Equus_caballus	KD	- <mark>QELEQY</mark>	KRSS <mark>SKSWKQIELD</mark> S	351
Bos_taurus	KD	-OELEOY	KRSS <mark>SKSWKQIELD</mark> S	357
Canis_lupus_familiaris	KD	- <mark>QELEQY</mark>	KRSS <mark>SKSWKQIELD</mark> S	348
Callithrix jacchus	PNN	- <mark>G</mark> HIRNR <mark>Y</mark> K <mark>GIM</mark> RRFF	GQEQICHALSFVVISTSFPLNC-LSGFYTL	411
Xenopus_tropicalis			KRNADRTWKAMALESNAP	359
Rhinatrema bivittatum			TRNA <mark>SKSWKGMELD</mark> VS <mark>G</mark> R	383
Chelonia mydas	KNQ	-AKRRFRDSI FCSEED N	NLYFTYS <mark>GKS</mark> NVLEVRELNYQV <mark>NMASQIPW</mark>	379
Pavo muticus			KRNASKSWKEMDFDPD	363
Pavo cristatus	KNOVCACSSIALH	NOELEOY	KRNA <mark>SKSWKEMDFDP</mark> D	363
Gallus gallus			<mark>KR</mark> NA <mark>SKSWKEMDFDP</mark> D	366
Anas_platyrhynchos	K	K <mark>QELEQY</mark>	<mark>KR</mark> NA <mark>SKSWKEMDFDP</mark> D	398
			580590	
B		THE COURT OF THE		450
Pan_troglodytes	HLKNRPSWS	TTVQRKDPDAVCPLQLH	EWRGFPR	470
Macaca_mulatta	F K K	<mark>PF</mark> SSV	DWCTC	394
Homo_sapiens				351
Mus_musculus				351
Rattus_norvegicus				351
Heterocephalus_glaber				387
Equus_caballus				351
Bos_taurus				357
Canis_lupus_familiaris				348
Callithrix_jacchus			EAC <mark>P</mark> SVI <mark>GS</mark> LGAR <mark>GPSQT</mark> REK	462
Xenopus_tropicalis				359
Rhinatrema_bivittatum				383
Chelonia_mydas			VQS <mark>G</mark> QMLAII <mark>GSS</mark> AC <mark>G</mark> K <mark>TP</mark> LL <mark>DVITCRDHG</mark>	439
Pavo_muticus				363
Pavo_cristatus				363
Gallus_gallus				366
Anas_platyrhynchos				398
	610	620630	640650660	
Pan_troglodytes				470
Macaca_mulatta				394
Homo_sapiens				351
Mus musculus				351
Rattus_norvegicus				351
Heterocephalus_glaber				387
Equus_caballus				351
Bos taurus				357
Canis_lupus_familiaris				348
Callithrix_jacchus				462
Xenopus tropicalis				359
Rhinatrema bivittatum				383
Chelonia_mydas	GKIKSGOIIINGO	PSTHOLVKKCIAHVROD	DRLL <mark>PN</mark> LTVKETLLFVAKLRLPKTFSDSQR	499
Pavo muticus				363
Pavo cristatus				363
Gallus gallus				366
Anas_platyrhynchos				398
			700710720	330

File: /media/morpheus/disk1/fst/pep_msa/DYNGAL:IT.ps Feb 1 12:05:12 2022 Page 5 of 7

Pan troglodytes		470
Macaca mulatta		394
Homo_sapiens		351
Mus musculus		351
Rattus norvegicus		351
Heterocephalus glaber		387
Equus_caballus		351
_		351
Bos_taurus		
Canis_lupus_familiaris		348
Callithrix_jacchus		462
Xenopus_tropicalis		359
Rhinatrema_bivittatum		383
Chelonia_mydas	EKRVEDVIAELRLRQCANTRVGNEYIRGVSGGERRRVSIGVQLLWNPGILILDEPTSGLD	559
Pavo_muticus		363
Pavo_cristatus		363
Gallus_gallus		366
Anas_platyrhynchos		398
	730740750760770780	
	/30/40/30//00//////////	
Pan_troglodytes		470
Macaca mulatta		394
Homo sapiens		351
Mus musculus		351
Rattus norvegicus		351
Heterocephalus glaber		387
		351
Equus_caballus		
Bos_taurus		357
Canis_lupus_familiaris		348
Callithrix_jacchus		462
Xenopus_tropicalis		359
Rhinatrema_bivittatum		359 383
Rhinatrema_bivittatum		
Rhinatrema_bivittatum Chelonia_mydas		383
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	SF <mark>TAHN</mark> LVI <mark>T</mark> LSRLA <mark>RGNR</mark> LVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	SFTAHNLVITL <mark>SR</mark> LA <mark>RGNR</mark> LVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	SFTAHNLVITL <mark>SR</mark> LA <mark>RGNR</mark> LVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 387
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 387 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 357 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 357 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 357 348 462 359
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 351 357 348 462 359 383
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF	383 619 363 363 366 398 470 394 351 351 357 357 348 462 359 383 679
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF790800810820830840 TEIGYPCPKFSNPADFYVDLTSIDNRSKEKEMESQKRARSLATLFWEKVKDVDDFLWKAN	383 619 363 363 366 398 470 394 351 351 351 357 351 357 359 383 679 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF790800810820830840 TEIGYPCPKFSNPADFYVDLTSIDNRSKEKEMESQKRARSLATLFWEKVKDVDDFLWKAN	383 619 363 363 366 398 470 394 351 351 351 357 351 359 363 363 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF790800810820830840 TEIGYPCPKFSNPADFYVDLTSIDNRSKEKEMESQKRARSLATLFWEKVKDVDDFLWKAN	383 619 363 366 398 470 394 351 351 351 351 357 348 462 359 363 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	SFTAHNLVITLSRLARGNRLVLLSVHQPRSDIFQLFDLVLLMTSGTTIYSGTARNMVQYF790800810820830840 TEIGYPCPKFSNPADFYVDLTSIDNRSKEKEMESQKRARSLATLFWEKVKDVDDFLWKAN	383 619 363 363 366 398 470 394 351 351 351 357 351 359 363 363 363

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Pan troglodytes		470
Macaca mulatta		394
Homo_sapiens		351
Mus musculus		351
Rattus norvegicus		351
Heterocephalus_glaber		387
		351
Equus_caballus		
Bos_taurus		357
Canis_lupus_familiaris		348
Callithrix_jacchus		462
Xenopus_tropicalis		359
Rhinatrema_bivittatum		383
Chelonia_mydas	EGDCVTTVYSDQSSLFTPEEVINMHSHSTDQLPGGLKQFTVLFSRQISSDFRDLSTLLIH	739
Pavo muticus		363
Pavo_cristatus		363
Gallus_gallus		366
Anas_platyrhynchos		398
Anas_pracyrnynchos	910920930940950960	390
	910920930940950960	
Pan troglodytes		470
Macaca mulatta		394
Homo_sapiens		351
Mus_musculus .		351
Rattus_norvegicus		351
Heterocephalus_glaber		387
Equus_caballus		351
Bos_taurus		357
Canis_lupus_familiaris		348
Callithrix_jacchus		462
		250
Xenopus tropicalis		359
Xenopus_tropicalis		359 383
Rhinatrema_bivittatum		383
Rhinatrema_bivittatum Chelonia_mydas	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366 398
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366 398 470 394
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH	383 799 363 363 366 398 470 394 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 387
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 387 351
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 357 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 357 351 357
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 357 348 462 359
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 357 348 462 359 383
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020	383 799 363 363 366 398 470 394 351 351 351 357 357 348 462 359 383 859
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020 DLEDGMYTVTPYFFAKILGELPEHCAFVIIYGVPIYWLTNLNPEPEHFLLNFLAVWLVVF	383 799 363 363 366 398 470 394 351 351 351 357 357 348 462 359 383 859 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020 DLEDGMYTVTPYFFAKILGELPEHCAFVIIYGVPIYWLTNLNPEPEHFLLNFLAVWLVVF	383 799 363 366 398 470 394 351 351 351 357 351 359 363 363 363
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020 DLEDGMYTVTPYFFAKILGELPEHCAFVIIYGVPIYWLTNLNPEPEHFLLNFLAVWLVVF	383 799 363 366 398 470 394 351 351 351 351 351 352 359 363 363 363 366
Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus	GSEALLMSLLIGFLYYGHDKTKLSIQDTVALLFMIGALIPFTVLLDVIAKCHSERAMLYH970980990100010101020 DLEDGMYTVTPYFFAKILGELPEHCAFVIIYGVPIYWLTNLNPEPEHFLLNFLAVWLVVF	383 799 363 366 398 470 394 351 351 351 357 351 359 363 363 363

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Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos	47	94 51 51 51 57 58 57 48 59 59 59 59 59 59 59 59 59 59 59 59 59
Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos	47 39 35 35 35 37 38 38 38 39 39 39 39 39 39 39 39 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30	94 51 51 57 58 57 58 57 58 58 58 58 58 58 58 58 58 58 58 58 58
Pan_troglodytes Macaca_mulatta Homo_sapiens Mus_musculus Rattus_norvegicus Heterocephalus_glaber Equus_caballus Bos_taurus Canis_lupus_familiaris Callithrix_jacchus Xenopus_tropicalis Rhinatrema_bivittatum Chelonia_mydas Pavo_muticus Pavo_cristatus Gallus_gallus Anas_platyrhynchos		