

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/C10H21Steps Tue Feb 1 11:33:19 2022

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		:	*	.	:	:	...	:	*								
Gallus_gallus	-----	MGC	ASAKHV	STVQ	NEETQ	KGK	NYQNG	-	DVFGDEYR	-----	35						
Pavo_muticus	-----	MGC	ASAKHV	STVQ	NEETQ	KGK	NYQNG	-	DVFGDEYR	-----	35						
Taeniopygia_guttata	-----	MGC	ASAKHV	STVQ	NEETQ	KGK	NYQNG	-	DVFGDEYR	-----	35						
Pavo_cristatus	-----	MGC	ASAKHV	STVQ	NEETQ	KGK	NYQNG	-	DVFGDEYR	-----	35						
Chelonia_mydas	-----	MGC	ASAKHV	STVQ	NEEEA	QKGK	NYQNG	-	DVFGDEYR	-----	35						
Mus_musculus	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKSYQNG	-	DVFGDEYR	-----	35						
Rattus_norvegicus	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKSYQNG	-	DVFGDEYR	-----	35						
Macaca_mulatta	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKNYQNG	-	DVFGDEYR	-----	35						
Callithrix_jacchus	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKNYQNG	-	DVFGDEYR	-----	35						
Pan_troglodytes	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKNYQNG	-	DVFGDEYR	-----	35						
Homo_sapiens	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKNYQNG	-	DVFGDEYR	-----	35						
Canis_lupus_familiaris	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKNYQNG	-	DVFGDEYR	-----	35						
Equus_caballus	-----	MGC	ASAKHV	ATVQ	NEEEA	AQ	KGKNYQNG	-	DVFGDEYR	-----	35						
Xenopus_tropicalis	-----	MGC	ASAKHV	STVQ	NEDDA	QNGK	NYQNG	-	DAFCDEYR	-----	35						
Rhinatrema_bivittatum	-----	M	RS	AATAP	GPPRR	PGNH	GRO	PQQQ	ARTGREIR	GSSSRPVR	AGRV	GAAAA	P	AAGA	54		
Bos_taurus	-----	M	LHSS	CRRR	GS	RAGW	RRV	S	RAGP	GKLG	SAHR	SS	E	GRGCA	ARM	MPG	45
		1.....	10.....	20.....	30.....	40.....	50.....	60									

		: *		:	*	.	.	
Gallus_gallus	-----IKP-----	VEEVKYMKNGGEDDQKIAARNQENL	63					
Pavo_muticus	-----IKP-----	VEEVKYMKNGGEDDQKIAARNQENL	63					
Taeniopygia_guttata	-----IKP-----	VEEVKYMKNGGEDDQKIAARNQENL	63					
Pavo_cristatus	-----IKP-----	VEEVKYMKNGGEDDQKIAARNQENL	63					
Chelonia_mydas	-----IKP-----	VEEVKYMKNGGEDDQKIAARNQENL	63					
Mus_musculus	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Rattus_norvegicus	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Macaca_mulatta	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Callithrix_jacchus	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Pan_troglodytes	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Homo_sapiens	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Canis_lupus_familiaris	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Equus_caballus	-----IKP-----	VEEVKYMKNGAEFEQKIAARNQENL	63					
Xenopus_tropicalis	-----IKP-----	VEEVKYMKNGEIEEEQKVVSRRNLEN	63					
Rhinatrema_bivittatum	AAGSRGPGIOPOOPLQQPPPPPPPPPPPPPOOEAAHTTFRATRGSSSSGRSSGLRRLPGDL	114						
Bos_taurus	LAFPCFQAAPLG-----	WTQLAWVFSAFGSPSSPSPPAAPPSPS	86					
70.....80.....90.....100.....110.....120							


Gallus_gallus	-----EKSASSNVRLKSNKEIPGLVHQPRANMH	91
Pavo_muticus	-----EKSASSNVRLKSNKEIPGLVHQPRANMH	91
Taeniopygia_guttata	-----EKSASSNTRLKSNKEIPGLVHQPRANMH	91
Pavo_cristatus	-----EKSASSNVRLKPNKEIPGLVHQPRANMH	91
Chelonia_mydas	-----EKSASSNVRLKSNKEVPGLVHQPRANMH	91
Mus_musculus	-----EKSASSNTRLKTNKEIPGLVHQPRANMH	91
Rattus_norvegicus	-----EKSASSNTRLKTNKEIPGFVHQPRANMH	91
Macaca_mulatta	-----EKSASSNVRLKTNKEVPGLVHQPRANMH	91
Callithrix_jacchus	-----EKSASSNVRLKTNKEVPGLVHQPRANMH	91
Pan_troglodytes	-----EKSASSNVRLKTNKEVPGLVHQPRANMH	91
Homo_sapiens	-----EKSASSNVRLKTNKEVPGLVHQPRANMH	91
Canis_lupus_familiaris	TRPPSLKVPAFFSDTAGHQDKSLRQTWLLFRSEKSASSNVRLKTNKEIPGLVHQPRANMH	123
Equus_caballus	-----EKSASSNVRLKTNKEIPGLVHQPRANMH	91
Xenopus_tropicalis	-----EKSVTIHAARSRSNVEAAGAGHPYRINIH	91
Rhinatrema_bivittatum	GRQ-----QKEVSSGSRLFKEKTASSLVRLKANKESPSLVHQPKASLH	157
Bos_taurus	PG-----CAQDAAFPPGSPFQRRGARTHTHTHTPVLALDSALQPW	129
130.....140.....150.....160.....170.....180	

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Gallus_gallus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D V T	--- 121
Pavo_muticus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D V T	--- 121
Taeniopygia_guttata	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D V T	--- 121
Pavo_cristatus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D V T	--- 121
Chelonia_mydas	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Mus_musculus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Rattus_norvegicus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Macaca_mulatta	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Callithrix_jacchus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Pan_troglodytes	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Homo_sapiens	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Canis_lupus_familiaris	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	-- 153
Equus caballus	I S E S Q Q E F F R M L D E K	-----	I E K G R D Y	C S E E E D I T	--- 121
Xenopus_tropicalis	I S E S Q Q E F F R M L D E K	-----	I E K G D Y	C S E E E D I T	--- 121
Rhinatrema_bivittatum	I S D S Q Q E F F R M L D E K	-----	I E K G H D Y	C S E E E D I T	-- 187
Bos_taurus	Q S R S P G P F L R V H G P R R P L P G A R R G A G R A R E P G A G R G R R W G S V W L P P P L E C T H L D R L S K K V	-----			189
190.....200.....210.....220.....230.....240				

Gallus_gallus	-----	121
Pavo_muticus	-----	121
Taeniopygia_guttata	-----	121
Pavo_cristatus	-----	121
Chelonia_mydas	-----	121
Mus_musculus	-----	121
Rattus_norvegicus	-----	121
Macaca_mulatta	-----	121
Callithrix_jacchus	-----	121
Pan_troglodytes	-----	121
Homo_sapiens	-----	121
Canis_lupus_familiaris	-----	153
Equus_caballus	-----	121
Xenopus_tropicalis	-----	121
Rhinatrema_bivittatum	-----	187
Bos_taurus		194
	