## CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep\_msa/DIMDat $\mathfrak{p}$ Tue Feb~1~11:55:56~2022 Page 1 of 3

Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Homo_sapiens Pan_troglodytes Callithrix_jacchus Mus_musculus Rattus_norvegicus Bos_taurus Equus_caballus Heterocephalus_glaber Latimeria_chalumnae Xenopus_tropicalis Rhinatrema_bivittatum		21 21 21 26 26 26 26 26 26 26 26 26 20
Latimeria_chalumnae Xenopus_tropicalis		64 64 64 70 70 112 70 70 70 78 1 63 63
Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Homo_sapiens Pan_troglodytes Callithrix_jacchus Mus_musculus Rattus_norvegicus Bos_taurus Equus_caballus Heterocephalus_glaber Latimeria_chalumnae Xenopus_tropicalis Rhinatrema_bivittatum	*:*:***.*:****************************	124 124 124 130 130 172 130 130 130 130 132 132 123

## CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep\_msa/DIMPatesTue Feb 1 11:55:56 2022 Page 2 of 3

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Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Homo_sapiens Pan_troglodytes Callithrix_jacchus Mus_musculus Rattus_norvegicus Bos_taurus Equus_caballus Heterocephalus_glaber Latimeria_chalumnae Xenopus_tropicalis Rhinatrema_bivittatum	YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGSKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGSKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGSKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGNKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGDKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGDKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGDKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGDKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAILMFQREFALRLVAKPGDKLYCRLSINTQLLARVDHLMK YQISSPFVFKLLLHRPFFRCAVLMFQREFALRLVAKPGDKLYCRLSINTQLLARVDHLMK	184 184 184 190 190 232 190 190 190 198 121 183 183
	**:**:*******	
Pavo_muticus Pavo_cristatus Gallus_gallus Chelonia_mydas Homo_sapiens Pan_troglodytes Callithrix_jacchus Mus_musculus Rattus_norvegicus Bos_taurus Equus_caballus Heterocephalus_glaber Latimeria_chalumnae Xenopus_tropicalis Rhinatrema_bivittatum	VGKNNFKPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLSAAFKSSAV VGKNNFKPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLSAAFKSSAV VGRNNFKPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRITFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLSAAFKSSAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLAAAFKSTAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLAAAFKSTAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLAAAFKSTAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLAAAFKSTAV VGKNNFRPPPKVESSVVRIEPKNPPPPINFQEWDGLVRIAFVRKNKTLSAAFKSHCEGVF	241 241 241 247 247 247 247 247 247 247 247 247 247
Latimeria_chalumnae Xenopus_tropicalis	:.**:* ::::::::::::::::::::::::::::::	294 294 294 296 300 300 342 300 300 300 300 308 231 293 299

## CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

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Pavo_muticus	S <mark>EG</mark> IHF <mark>S</mark>	307
Pavo_cristatus	S <mark>EGIHFS</mark>	307
Gallus_gallus	S <mark>EGIHFS</mark>	307
Chelonia_mydas	SQHYGFKETQYIQNQFTLLTLTGVSNHAVSSGSRLDTV	334
Homo_sapiens	AEGIHFS	313
Pan_troglodytes	AEGIHFS	313
Callithrix jacchus	AEGIHFS	355
Mus_musculus	AEGIHFS	313
Rattus norvegicus	AEGIHFS	313
Bos taurus	AEGIHFS	313
Equus caballus	AEGIHFS	313
Heterocephalus glaber	AEGIHFA	321
Latimeria chalumnae	AAGIHFS	244
Xenopus tropicalis	S <mark>OG</mark> IHFT	306
Rhinatrema_bivittatum	RENIERYWL	316
<del>-</del>	370380390	