

Multiple sequence alignment of erythrocytic α -spectrin sequences from 58 different species

Sequences of erythrocytic α -spectrin were collected from the UniProtKB database at uniprot.org. 58 sequences with “erythrocytic α -spectrin” annotation were selected with an additional criterium being a comparable sequence length to human erythrocytic α -spectrin (2,419 residues). Multiple sequence alignment was performed with Clustal Omega (webserver version accessed at <https://www.ebi.ac.uk/Tools/msa/clustalo/> on 04.30.2020) with default parameters. The result is given in the file with the ending .clustal_num.

In addition, the sequence alignment is displayed as a .tif file, with colored residues indicating high identity according to the ‘identity’ coloring option of Mview; colors vary according to physicochemical properties as specified in the MView documentation (Madeira, Park et al. 2019).

Multiple sequence alignment of erythrocytic β -spectrin sequences from 11 different species

Sequences of erythrocytic β -spectrin were collected from the UniProtKB database at uniprot.org. 11 sequences with “erythrocytic β -spectrin” annotation were selected with an additional criterium being a comparable sequence length to human erythrocytic β -spectrin (2,137 residues). Multiple sequence alignment was performed with Clustal Omega (webserver version accessed at <https://www.ebi.ac.uk/Tools/msa/clustalo/> on 04.30.2020) with default parameters. The result is given in the file with the ending .clustal_num.

In addition, the sequence alignment is displayed as a .tif file, with colored residues indicating high identity according to the ‘identity’ coloring option of Mview; colors vary according to physicochemical properties as specified in the MView documentation (Madeira, Park et al. 2019).

Madeira, F., Park, Y. M., Lee, J., Buso, N., Gur, T., Madhusoodanan, N., Basutkar, P., Tivey, A. R. N., Potter, S. C., Finn, R. D., and Lopez, R. (2019) The EMBL-EBI search and sequence analysis tools APIs in 2019. *Nucleic Acids Res.* 47, W636-W641