**S3 Table.** Uniprot sequences IDs used to build the initial seed of the Hsp70 family MSA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **O73885****P08107****P0A6Y8****P0A6Z1****P0C922****P0CS91****P11021****P16394****P19378****P20030****P20442****P20583****P22010****P22358****P22774****P24067****P25840****P26791****P27541****P27542****P29215****P29845** | **P30722****P36604****P38646****P47773****Q01899****Q02028****Q03685****Q05746****Q05981****Q06248****Q1IEI8****Q28222****Q2S307****Q3SEX4****Q3YZ26****Q5NVM9****Q7MNF8****Q8H1B3****Q8T869****Q91291****Q9TUG3****A1DB02** | **A4RSV4****A5AT21****A7LH89****A7SG65****A7TL70****A7YVD5****A9U4N3****B2D2G5****B2ZR74****B6F134****B7U9Z3****C4JI41****C8ZG23****D1FX74****D1J774****D3AY31****D7GL49****E1AQZ2****E3VXC7****F2QWI6****F6K6F4****F6Z1G9** | **F6ZXI7****G1MSW3****G2HZX1****G3W9P3****G9DA09****H2B1P0****H2B652****H2L3G7****I1LQR4****I1R2A1****J3MYR8****J7F7M8****K0KZP2****K1QG22****K3Z4C1****K4G024****K7IQ77****M9N2X3****O42808****Q0KKB3****Q17UC1****Q22C26** | **Q22CG9****Q2PPI9****Q3S348****Q40151****Q5MGA8****Q5QHT4****Q804B6****Q8AYL6****Q8UUJ8****Q8UV14****Q94805****Q95V47****R9WNY5****T1DQ26****T1IUX6****T2MH32****V4AFV6****V5FLC8****V5RG72****W5KA74****W7XEU7****W8GMB0** |