

Table S1 **Alignments of human and mouse γ -tubulins**

γ -Tubulin 1

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H.s. MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDRKDVFFYQADDEHYIPRAVLLDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFD 120
M.m. MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDRKDVFFYQADDEHYIPRAVLLDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFD 120
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H.s. IIDREADGSDSLEGFVLCHSIAGGTGSGLGSYLLERLNDRYPKKLVTYTSVFPNQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQLVSTIMSAST 240
M.m. IIDREADGSDSLEGFVLCHSIAGGTGSGLGSYLLERLNDRYPKKLVTYTSVFPNQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQLVSTIMSAST 240
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H.s. TTLRYPGYMNNDLIGLIASLIPTPRLHFLMTGYTPLTTDQSVASVRKTTVLDVMRRLQLPKNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLANFIPWGPASIQVAL 360
M.m. TTLRYPGYMNNDLIGLIASLIPTPRLHFLMTGYTPLTTDQSVASVRKTTVLDVMRRLQLPKNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLANFIPWGPASIQVAL 360
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H.s. SRKSPYLPSAHRVSGLMANHTSISSLFERTCRQYDKLRKREAFLEQFRKEDMFKDNFDEMDTSREIVQQLIDEYHAATRDPDYISWGTQEQ 451
M.m. SRKSPYLPSAHRVSGLMANHTSISSLFERTCRQYDKLRKREAFMEQFRKEDIFKDNFDEMDTSREIVQQLIDEYHAATRDPDYISWGTQEQ 451
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γ -Tubulin 2

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H.s. MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDRKDVFFYQADDEHYIPRAVLLDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFD 120
M.m. MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDRKDVFFYQADDEHYIPRAVLLDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWGRGFSQGEKIHEDIFD 120
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H.s. IIDREADGSDSLEGFVLCHSIAGGTGSGLGSYLLERLNDRYPKKLVTYTSVFPYQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQLVSTIMSAST 240
M.m. IIDREADGSDSLEGFVLCHSIAGGTGSGLGSYLLERLNDRYPKKLVTYTSVFPNQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQLVSTIMSAST 240
*****

H.s. TTLRYPGYMNNDLIGLIASLIPTPRLHFLMTGYTPLTTDQSVASVRKTTVLDVMRRLQLPKNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLANFIPWGPASIQVAL 360
M.m. TTLRYPGYMNNDLIGLIASLIPTPRLHFLMTGYTPLTTDQSVASVRKTTVLDVMRRLQLPKNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLANFIPWGPASIQVAL 360
*****

H.s. SRKSPYLPSAHRVSGLMANHTSISSLFESSCQQYDKLRKRDFAFLEQFRKEDMFKDNFDEMDRSREVVQELIDEYHAATQPDYISWGTQEQ 451
M.m. SRKSPYLPSAHRVSGLMANHTSISSLFESSCQQYDKLWKRGAFLQFRKEDIFKDNFDEMDRSREVVQELIDEYHAATRDPDYISWGTQEQ 451
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H.s., human (*Homo sapiens*); *M. m.*, mouse (*Mus musculus*). Accessions numbers (NCBI database): human γ -tubulin 1, NP_001061.2; mouse γ -tubulin 1, NP_598785.1; human γ -tubulin 2, NP_057521.1; mouse γ -tubulin 2, NP_598789.1. An asterisk indicates positions which have a single, fully conserved residue. A colon indicates conservation among groups of strongly similar properties. A period indicates conservation among groups of weakly similar properties. Different amino acids are highlighted.