

Supplementary Figure 1: Alignment of Human *TUBB2* Genes

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TUBB2B      MREIVHIQAGCCGNQIGAKFWEVISDEHGI DPTGSYHGSDSLQLERINVYVNEATGNKYV 60
TUBB2A      MREIVHIQAGCCGNQIGAKFWEVISDEHGI DPTGSYHGSDSLQLERINVYVNEAAGNKYV 60
TUBB2C      MREIVHIQAGCCGNQIGAKFWEVISDEHGI DPTGTYHGSDSLQLERINVYVNEATGGKYV 60
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TUBB2B      PRAILLVDLEPGTMDSVRSRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDVSLVDVV 120
TUBB2A      PRAILLVDLEPGTMDSVRSRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDVSLVDVV 120
TUBB2C      PRAVLVDLEPGTMDSVRSRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDVSLVDVV 120
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TUBB2B      RKESESCDCLQGQQLTHSLGGGTGSGMGTL LISKIREEYPDRIMNTFSVMPSPKVS DTVV 180
TUBB2A      RKESESCDCLQGQQLTHSLGGGTGSGMGTL LISKIREEYPDRIMNTFSVMPSPKVS DTVV 180
TUBB2C      RKEAESCDCLQGQQLTHSLGGGTGSGMGTL LISKIREEYPDRIMNTFSVVPSPKVS DTVV 180
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TUBB2B      EPYNATLSVHQLVENTDETYCIDNEALYDI CFTRLKLTPTTYGDLNHLVSA TMSGVTTCL 240
TUBB2A      EPYNATLSVHQLVENTDETYCIDNEALYDI CFTRLKLTPTTYGDLNHLVSA TMSGVTTCL 240
TUBB2C      EPYNATLSVHQLVENTDETYCIDNEALYDI CFTRLKLTPTTYGDLNHLVSA TMSGVTTCL 240
*****;*****;*****;*****

TUBB2B      RFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQYRAL TVPELTQQMFDSKNMM 300
TUBB2A      RFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQYRAL TVPELTQQMFDSKNMM 300
TUBB2C      RFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQYRAL TVPELTQQMFDAKNMM 300
*****;*****;*****;*****

TUBB2B      AACDPRHGRYLTVA AIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTA VCDIPPRG 360
TUBB2A      AACDPRHGRYLTVA AIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTA VCDIPPRG 360
TUBB2C      AACDPRHGRYLTVA AAVFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTA VCDIPPRG 360
*****;*****;*****;*****

TUBB2B      LKMSATFIGNSTAI QELFKRISQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS 420
TUBB2A      LKMSATFIGNSTAI QELFKRISQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS 420
TUBB2C      LKMSATFIGNSTAI QELFKRISQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS 420
*****;*****;*****;*****

TUBB2B      EYQQYQDATADEQGEFEEEEGEDEA 445
TUBB2A      EYQQYQDATADEQGEFEEEEGEDEA 445
TUBB2C      EYQQYQDATAEEEFEEEEEEVA 445
*****;***** *; *

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Supplementary Figure 1: Alignment of Human *TUBB2* Genes. *TUBB2A*, *TUBB2B* and *TUBB2C* were aligned using ClustalW. (*) shows identity among residues, (:) and (.) depict divergent residues. Note the presence of referenced non-synonymous polymorphisms above *TUBB2B*'s sequence (referenced in NCBI SNPs database [<http://www.ncbi.nlm.nih.gov/sites/entrez?db=snp>] and Ensembl Genome browser [<http://www.ensembl.org>]). During our screening, we just found one occurrence of one polymorphism (C201S).