

Supplementary Table. 2 Alignment of YTHDF2 homologs between Human and Zebrafish by Clustal Omega

CLUSTAL O(1.2.4) multiple sequence alignment

Human	MSASSLLEORPKGOGNKVQNGSVHOKDGLNDDDFEPYLSPOARPNNAYTAMSDSYLPSYY	60
Zebrafish	MSASSLLEORPKGQANKVQNGAVTQKDTLNDDDFEPYLNAPROSNAYTAMSDSYMPYSYY	60
	*****:***:*****:***:*****:***:*****:*****:*****:*****:*****	
Human	SPS IGFSSYLGEAAWSTGGDTAMPYLTSYGQLSNGEHPFLPDAMFGQPGALGSTPFLGQH	120
Zebrafish	SPS IGFYSLNEAAWSTGGDPPMPYLA SYGQLSNGEHPFLPDAMFGQSGALGNPFLGQH	120
	*****:***:*****:*****:*****:*****:*****:*****:*****:*****	
Human	GFNFFPSG I DFWAWGNSSGQSTQSSGYSSNYAYAPSSLGGAMI DGQSAFA-NETLNKA	179
Zebrafish	GFNFFPSG I DFWAWGNSSGQSTQSSGYSSNYAYAPSTLGGAMI DGQSPFAANEPLNKA	180
	*****:***:*****:*****:*****:*****:*****:*****:*****:*****	
Human	PGMNT I DOGMAALKLGSTEVASINPKVVGSVAVGSGS I TSN I VASNSLPPAT I APPKPASW	239
Zebrafish	VGMNSLDQMGALK I GAGDMA----PKVVGSGLPGPL-SQVSAAPTMPAPMAPAKTASW	236
	*****:***:***:***:*****:***:***:***:***:***:***:***:***:***:***:***	
Human	AD I ASKPAKQPKLKTNG I AGSSLPPPP I KHND I GTWQNKGPVAKAP--SQALVON I G	297
Zebrafish	AD I ASKPAKQPKLKTGGLGGTLPPPP I KHND I GTWQNKGNMPKPAAPQOTSLEPTNG	296
	*****:*****:***:***:*****:*****:*****:***:***:***:***:***:***:***	
Human	OPT-QGSPQVVGQANNPPVAQ-----ASVGOQ-TOPLPP-----PPPOAQLSVQD	343
Zebrafish	QPPNQSSPOFG-ATAGGVPLPLSNGQLVPPTGQLVQHPLPPGGQPGAVPQLSQGPPVS	355
	:*:*:***:***:***:***:***:***:***:***:***:***:***:***:***:***:***	
Human	QAAQTRWVAPRNRRGSGFGHNGV-DGNGVGSQAGSGSTPSEHPVLEKLR I NNYNPKD	402
Zebrafish	QPSQTRWVPPRNRRANGFGDAAGGPGQSPNSGMMG I TVPAEHPVLEKLRMNNYNPKD	415
	*:*****:***:***:***:***:***:***:***:***:***:***:***:***:***:***:***	
Human	FDWNLKHGRVF I IKSYSRDD I HRS I KYN I WCSTEHGNKRLDAAVRSNMGKGPVYLLFSVN	462
Zebrafish	FDWNPKHGRVF I IKSYSRDD I HRS I KYN I WCSTEHGNKRLDAAVRSNMGKGPVYLLFSVN	475
	*****:*****:*****:*****:*****:*****:*****:*****:*****:*****	
Human	GSGHFCGVAEMKSAVDYNTCAGVWSQDKWGRFDVRI FVKDVPNSQLRH I RLENNENKP	522
Zebrafish	GSGHFCGVAEMRSPVDYNTCAGVWSQDKWGRFDVRI FVKDVPNSQLRH I RLENNENKP	535
	*****:***:*****:*****:*****:*****:*****:*****:*****:*****	
Human	VTNSRDTQEVPLEKAKQVLK I I ASYKHTTS I FDFSHYEKRQEEEEVKKERQGRGK---	579
Zebrafish	VTNSRDTQEVPLDKARQVLK I I ASYKHTTS I FDFSHYEKRQEEEEVKKVTCHGLAPSG	595
	*****:***:*****:*****:*****:*****:*****:*****:*****:*****	
Human	-	579
Zebrafish	I	596