

**Supplementary Table S2: Primer sequences and constructs used in this study**

**Supplementary Table S2A: Cloning of HYPK-interacting protein-coding genes in mammalian expression vectors, HYPK antisense strand in pU6.1 RNA/Hygro vector & Mus musculus HYPK expression primers**

GENE	VECTOR	SEQUENCE OF FORWARD PRIMER	RESTRICTION ENZYME SITE IN FORWARD ADAPTOR SEQUENCE	SEQUENCE OF REVERSE PRIMER	RESTRICTION ENZYME SITE IN REVERSE ADAPTOR SEQUENCE
HSPA8	DsRed-C1	5'- <u>ACGCGTCGACGTCAAGG</u> GACCTGCAGTTGGTA-3'	Sall	5'- <u>CGGGATCCTTAATC</u> AACCTCTTCAATGG TG-3'	BamHI
CALM1	DsRed-C1	5'- <u>ACGCGTCGACGTATGGCT</u> GATCAGCTGACTGAAGA G-3'	Sall	5'- <u>CGGGATCCTCATT</u> TGCAGTCATCATCT GT-3'	BamHI
LMNB2	DsRed-C1	5'- <u>ACGCGTCGACATGGCCAC</u> GCCGCTG-3'	Sall	5'- <u>CGGGATCCTCACAT</u> CACGTAGCAGCCTC T-3'	BamHI
VIM	DsRed-C1	5'- <u>ACGCGTCGACGTGTCCAC</u> CAGGTCCGTGTC -3'	Sall	5'- <u>CGGGATCCTTCTCA</u> GCATCACGATGACC -3'	BamHI
Antisense HYPK	pU6.1 RNA/Hygro	5'- <u>CGGGATCCTAGGGCAAT</u> AAGAGCCTCCA-3'	BamHI	5'- <u>CCCAAGCTTTTTTTT</u> GGAGATCTCTCGAG CAGCAG-3'	HindIII
<b>EXPRESSION PRIMERS</b>					
Mouse HYPK expression primer	N/A	5'- GCGGTGAGATCGAAAT GG-3'	N/A	5'- TCAGTTGGTTAGGG CAATAAGA-3'	N/A

**Supplementary Table S2B: Summary & sources of the constructs used in this study**

<b>GENE CLONED</b>	<b>VECTOR(S)</b>	<b>DESIGNATION</b>	<b>SOURCES</b>
HSPA8	pECFP-C1, pDsRed-C1	HSPA8-CFP, HSPA8-DsRed	Present Study
CALM1	pEGFP-C1, pDsRed-C1	CALM1-GFP, CALM1-DsRed	Present Study
LMNB2	pDsRed-C1	LMNB2-DsRed	Present Study
VIM	pDsRed-C1	VIM-DsRed	Present Study
HYPK	pEGFP-C1, pDsRed-C1	HYPK-GFP, HYPK-DsRed	Swasti Raychaudhuri et al., Human Molecular Genetics, 2008, 17(2): 240–255
EEF1A1	pDsRed-C1, pEGFP-C1	EEF1A1-DsRed, EEF1A1-GFP	Swasti Raychaudhuri, Srijit Das and N.P. Bhattacharyya, Unpublished data
HSPA1A	pEGFP-C1	HSPA1A-GFP	Swasti Raychaudhuri and N.P. Bhattacharyya, Unpublished data
HSPB1	pEGFP-C1	HSPB1-GFP	Kindly gifted by Dr. Nihar Ranjan Jana, National Brain Research Centre, India
DNAJB3	pEGFP-C1	DNAJB3-GFP	Manisha Banerjee and N.P. Bhattacharyya, Unpublished data
MLF1	pEGFP-C1	MLF1-GFP	Manisha Banerjee and N.P. Bhattacharyya, Unpublished data
MLF2	pEGFP-C1	MLF2-GFP	Manisha Banerjee and N.P. Bhattacharyya, Unpublished data
HIP1	pDsRed-C1	HIP1-DsRed	Manisha Banerjee and N.P. Bhattacharyya, Unpublished data
TP53	pECFP-C1	TP53-CFP	Jayeeta Ghose et al., PLoS One. 2011;6(8):e23837
HSF1	pEGFP-C1	HSF1-GFP	Srijit Das and N.P. Bhattacharyya, Unpublished data
Antisense HYPK	pU6.1-RNA/Hygro	HYPK-U61	Present Study