

Additional File 6: Table S4

Gene	Template	Primer	Sequence	pDONR/ pDEST	Product
BRD3	pENTR223/ BRD3	1st 5'	TGTAACACGACGGCCAGTCT	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/BRD3 N115F
		1st 3'	CTGTGGGCTTGAAATAAATATAAC		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	CAGGAAACAGCTATGACCATG		
BRD3	pENTR223/ BRD3	1st 5'	TGTAACACGACGGCCAGTCT	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/BRD3 N390F
		1st 3'	GGTCTGGAGGGAAGTACTTATAAC		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	CAGGAAACAGCTATGACCATG		
BRD3	PCR product used to create BRD3 N390F mutant (immediately above)	1st 5'	TGTAACACGACGGCCAGTCT	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/BRD3 N115F-N390F
		1st 3'	CTGTGGGCTTGAAATAAATATAAC		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	CAGGAAACAGCTATGACCATG		
BRD4	pENTR221/ BRD4	1st 5'	TGTAACACGACGGCCAGTCT	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/BRD4 N140F
		1st 3'	CTCCAGGCTTGAAGTAGATGTAA		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	CAGGAAACAGCTATGACCATG		
BRD4	pENTR221/ BRD4	1st 5'	TGTAACACGACGGCCAGTCT	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/BRD4 N433F
		1st 3'	GGTCAGGAGGGAAGTACTTATAG		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	CAGGAAACAGCTATGACCATG		
BRD4	PCR product used to create BRD4 N433F mutant (immediately above)	1st 5'	TGTAACACGACGGCCAGTCT	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/BRD4 N140F-N433F
		1st 3'	CTCCAGGCTTGAAGTAGATGTAA		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	CAGGAAACAGCTATGACCATG		
BRD7	pcDNA5/FRT/TO- eGFP-DEST/ BRD7	1st 5'	GGCGCGCCCAAGTTTGTA	pDONR221	pENTR221/BRD7 N211F
		1st 3'	TCTCTGGCTTGAAGTAAATCATTGC		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	AGGCACAGTCGAGGCTGATCA		

GCN5L2	pENTR223/ GCN5L2	1st 5'	TCGCGAGTACTTCCCCCGGACA	pcDNA6.2/ N-EmGFP-DEST	pcDNA6.2/N-EmGFP- DEST/GCN5L2 N808F
		1st 3'	TATCGCGAGCCCATTATAC		
		2nd 5'	TGTAAAACGACGGCCAGTCT		
		2nd 3'	megaprimer (1st PCR)		
ZMYND11	pcDNA5/FRT/TO- eGFP- DEST/ZMYND11	1st 5'	GGCGCGCCCAAGTTTGTA	pDONR221	pENTR221/ZMYND11 Y191A
		1st 3'	CACTGTCTCCGAAGAAAATCACGG		
		2nd 5'	megaprimer (1st PCR)		
		2nd 3'	AGGCACAGTCGAGGCTGATCA		