

Additional File 2: Figure S2

	(1)	1	10	20	30	40	50	60	70	80	90	100	110	122																						
ATAD2 bromo	(1)	-----	RELR	FLRN	YTHRLAI	--DKRFRV	FTKVPDPDEV	PDY	VTVIKQ	PMDL	SSVISKID	LHKYLT	--VKDYLR	IDID	LICSNALEYN	PDRDPG	DRL	LRHRACAL	LRD	TAYAI	KEELDEDF															
GCN5L2 bromo	(1)	----	QIYTT	LKNLLAQ	IKS	-----	HPSA	PFME	VPVKKSE	APDY	YEVI	FFPID	LKTMTER	LSRY	YVTR	--KL	FVAD	LQRVIAN	CREYN	PP	-----	DSEY	CRCASALEKF	FYFK	KE	-----										
BRD1 bromo	(1)	----	PLTV	LRS	VLDQ	LQD	-----	KDPA	RIFA	QPVSLKE	VPDY	LDH	LKH	PMDF	ATMRKR	LAQGYKN	--LH	EFEED	DFDL	IID	NCMKY	NAR	-----	DTV	FYRA	AAVR	LRD	QGGV	VL	-----						
BRD7 bromo	(1)	----	PLQE	ALNQL	MRQL	QR	-----	KDPS	AFFS	FPVTD	FIAPGY	SM	IIKH	PMDF	STMKE	EIKNNDYQS	--IE	ELKDN	FKLMCT	NAMI	YNKP	----	ETI	YKA	AKKL	LHSG	MKIL	-----								
hBRD7 bromo	(1)	----	PLQE	ALNQL	MRQL	QR	-----	KDPS	AFFS	FPVTD	FIAPGY	SM	IIKH	PMDF	STMKE	EIKNNDYQS	--IE	ELKDN	FKLMCT	NAMI	YNKP	----	ETI	YKA	AKKL	LHSG	MKIL	-----								
mBRD7 bromo	(1)	----	PLQE	ALNQL	MRQL	QR	-----	KDPS	AFFS	FPVTD	FIAPGY	SM	IIKH	PMDF	STMKE	EIKNNDYQS	--IE	ELKDN	FKLMCT	NAMI	YNKP	----	ETI	YKA	AKKL	LHSG	MKIL	-----								
BAZ2A bromo	(1)	----	DLTF	CEI	ILMEMESH	--D--	AAWP	LEPV	NPRLVSG	--YRR	IIKN	PMDF	STM	RERLL	LRGGYTS	--SE	EFAAD	ALLV	FDNC	QT	NED	-----	DSE	V	GKAGH	IMRRF	FESRW	-----								
hTRIM24 bromo	(1)	LTPID	KRKCER	LLFLYCH	-----	EMSL	AFQDPVPL	LTVPDY	YK	IIKN	PMDL	STIK	KRLQ	EDYS	MYSK	PE	FVAD	FRLL	FQ	NCAE	FNEP	-----	DSE	V	ANAGI	KLE	NYFEEL	KNLYPE	--							
mTRIM24 bromo	(1)	LTPID	KRKCER	LLFLYCH	-----	EMSL	AFQDPVPL	LTVPDY	YK	IIKN	PMDL	STIK	KRLQ	EDYS	CMYTK	PE	FVAD	FRLL	FQ	NCAE	FNEP	-----	DSE	V	ANAGI	KLE	SYFEEL	KNLYPE	--							
BRD4 bromo 1	(1)	RQTNQ	LQYL	LRVVLKT	LWK	--HQ--	FAWP	FQPV	DAVK	LNL	PDY	YK	IIKT	PMD	GTIK	KRL	ENNY	YWN	--AQ	ECI	QDFNT	MFT	NCYI	YNKP	----	GD	DIVL	MAE	LEKL	FLQK	NEL	----				
hBRD3 bromo 1	(1)	RKTNQ	LQYM	QNVV	VKT	LWK	--HQ--	FAWP	FYQP	DAIK	LNL	PDY	YK	IIKN	PMD	GTIK	KRL	ENNY	YWS	--AS	ECM	QDFNT	MFT	NCYI	YNKP	----	TD	DIVL	MAQ	ALEKI	FLQK	VAQM	----			
mBRD3 bromo 1	(1)	RKTNQ	LQYM	QNVV	VKT	LWK	--HQ--	FAWP	FYQP	DAIK	LNL	PDY	YK	IIKN	PMD	GTIK	KRL	ENNY	YWS	--AS	ECM	QDFNT	MFT	NCYI	YNKP	----	TD	DIVL	MAQ	ALEKI	FLQK	VAQM	----			
BRD4 bromo 2	(1)	----	QLKCC	SG	ILKEM	FAKKHAA	--YAWP	FYKPV	DVEAL	GLHDY	CD	IIKH	PMD	STIK	SKLEARE	YRD	--AQ	EFG	ADVR	LMFS	NCYKYN	PP	----	DHE	V	VAMAR	KIQD	V	FEMRF	-----						
hBRD3 bromo 2	(1)	----	HLRY	CDS	ILREML	SKKHAA	--YAWP	FYKPV	DAEAL	ELHDY	HD	IIKH	PMDL	STV	KRKMD	GREY	PD	--AQ	GFA	ADVR	LMFS	NCYKYN	PP	----	DHE	V	VAMAR	KIQD	V	FEMRF	-----					
mBRD3 bromo 2	(1)	----	HLRH	QDS	ILREML	SKKHAA	--YAWP	FYKPV	DAEAL	ELHDY	HD	IIKH	PMDL	STV	KRKMD	SREY	PD	--AQ	GFA	ADVR	LMFS	NCYKYN	PP	----	DHE	V	VAMAR	KIQD	V	FEMRF	-----					
CREBBP bromo	(1)	--PEEL	RQAL	MP	TLEALY	--QDP--	ESLP	ERQP	VDPQL	GIPDY	FD	IVKN	PMDL	STIK	RKLL	DTGQ	YQEP	--WQ	YVD	DVLM	ENNAW	LYNRK	----	TSR	V	YKFC	SKIA	EV	FEQE	DPVMQ	----					
SMARCA2 bromo	(1)	----	KLTK	QMN	AI	IDT	VINY	KDSS	GRQL	SEVFI	QLPS	RKEL	PEY	YEL	IKR	PVDF	KKIK	ERIR	NHKYRS	--LG	DLEK	VM	LI	CHNAQT	NLE	----	GS	QI	YED	SIV	LQSV	EKSARQKI	----			
ZMYND11 bromo	(1)	----	MGTY	L	RE	IVSR	MKER	-----	AI	DLN	KGK	DNKH	EM	YRR	LVHSAV	DVPT	IQEK	VNEG	KYRS	--YE	E	KADA	QL	LLHNT	VIF	YGD	SEQA	I	ARM	LYKDT	CHEL	DELQ	IC	-----		
Consensus	(1)		L	L	ILL	L	K		F	D	L	LPDY	Y	IIK	PMDL	STIK	KKLE		Y	S		EF	DF	LMFT	NC		YN	P		DSEV		A	KL	VF	L	