

BrrA08g331200.1	MSRHLSFIIWSFYTDREKHTLKPYCLNLFAAQNHTVIYIRHCSSHRSSNVDRHVDDIPQITNRAHKLQQRSVTEKERMTSDGATSTSAAAAAMAATRRKE	100
BraA08g028240.3C	.....MTSDGATSTSAAAAAMAATRRKE	22
Consensus	mtsdgatstsaaaaamaatrrkp	
BrrA08g331200.1	SWRERENNRNRERRRRRAVAAKIYTGRLAQGNYNLPKHCDNNEVLKALCSEAGWVVEEDGTTYRKGHKPPSLPGDVAGSSSRATPYSSYNQSPFFESPILSY	200
BraA08g028240.3C	SWRERENNRNRERRRRRAVAAKIYTGRLAQGNYNLPKHCDNNEVLKALCSEAGWVVEEDGTTYRKGHKPPSLPGDVAGSSSRATPYSSYNQSPFFESPILSY	122
Consensus	swrerennnrnrerrrrravaakiytgrlaqgnynlpkhcdnnevlkalcseagwvveedgttyrkghkppslpgdvagsssratpyssynqspffespilsy	
BrrA08g331200.1	QVSPSSSSFFSPSRGGGDTHNNISTIFPFLRNGGIPSSLPLRLISNSAPVTPFVSSPSSKHPPALSTWGECEFTNCSAKQSMSSFNYPFYAVSAPASPTHH	300
BraA08g028240.3C	QVSPSSSSFFSPSRGGGDTHNNISTIFPFLRNGGIPSSLPLRLISNSAPVTPFVSSPSSKHPPALSTWGECEFTNCSAKQSMSSFNYPFYAVSAPASPTHH	222
Consensus	qvspssssffpspsrgggdthnnistifpflrnggipsslpplrlisnsapvtppvsspskhpk l twgecftnqsakqsmssfnypfyavsapaspthh	
BrrA08g331200.1	RQFNAPPATIFECDSDASTVDSGHWISFQKFSQQQFFLGVSAPVPSPTFNLVRPPVVKQLSPNTGATQEIGQSSEFKFENSQVQKPWEGERIHDVAMEDL	400
BraA08g028240.3C	RQFNAPPATIFECDSDASTVDSGHWISFQKFSQQQFFLGVSAPVPSPTFNLVRPPVVKQLSPNTGATQEIGQSSEFKFENSQVQKPWEGERIHDVAMEDL	322
Consensus	rqfnappatipecdsdastvdsghwisfqkfsqqqfflgvsavpasptfnlvrrppvqqlspntgatqeigqssefkfensqvqkpwegerihdvamedl	
BrrA08g331200.1	ELTLGNAGR	410
BraA08g028240.3C	ELTLGNAGR	332
Consensus	eitlgnagr	

**Fig. S10** Alignment of the BrA08BES1 protein sequences between MM and BY.