

BrrA08g331200.1	<b>MSRHLFSFI</b> WSFYTDREKHTLKFYCLNLFAAQNH <span style="background-color: #00FFFF;">TVIYIRH</span> CSHRSSNVDRH <span style="background-color: #00FFFF;">DDIFQITNRAHKL</span> QQR <span style="background-color: #00FFFF;">SVTEKEK</span>	<b>M</b> TS <span style="background-color: #00FFFF;">SDGATSTSAAAAMAAATRRKP</span>	100
BraA08g028240.3C	.....	<b>M</b> TS <span style="background-color: #00FFFF;">SDGATSTSAAAAMAAATRRKP</span>	22
Consensus		mtsdgatstsaaaamaatrrkp	
BrrA08g331200.1	<b>SWRERENNRRERRRRRAVA</b> AKIYTGLRAQGN <span style="background-color: #00FFFF;">YNLPK</span> HCDNNEV <span style="background-color: #00FFFF;">IKALC</span> SEAGW <span style="background-color: #00FFFF;">VVEEDGTT</span> YRK <span style="background-color: #00FFFF;">GHK</span> K <span style="background-color: #00FFFF;">F</span> PSLPG <span style="background-color: #00FFFF;">DVAG</span> SSSRATPYSSY <span style="background-color: #00FFFF;">NQSPF</span> E <span style="background-color: #00FFFF;">SPILSY</span>	200	
BraA08g028240.3C	<b>SWRERENNRRERRRRRAVA</b> AKIYTGLRAQGN <span style="background-color: #00FFFF;">YNLPK</span> HCDNNEV <span style="background-color: #00FFFF;">IKALC</span> SEAGW <span style="background-color: #00FFFF;">VVEEDGTT</span> YRK <span style="background-color: #00FFFF;">GHK</span> K <span style="background-color: #00FFFF;">F</span> PSLPG <span style="background-color: #00FFFF;">DVAG</span> SSSRATPYSSY <span style="background-color: #00FFFF;">NQSPF</span> E <span style="background-color: #00FFFF;">SPILSY</span>	122	
Consensus	swrerennrrerrrravaakiytgla <span style="background-color: #00FFFF;">rqgnynlpk</span> hcdnnev <span style="background-color: #00FFFF;">lkal</span> cseagw <span style="background-color: #00FFFF;">vveedg</span> tt <span style="background-color: #00FFFF;">y</span> rk <span style="background-color: #00FFFF;">ghk</span> pp <span style="background-color: #00FFFF;">s</span> lp <span style="background-color: #00FFFF;">g</span> dvag <span style="background-color: #00FFFF;">sssr</span> atpyssy <span style="background-color: #00FFFF;">nqspf</span> espil <span style="background-color: #00FFFF;">sly</span>		
BrrA08g331200.1	<b>QVSP</b> SSSSFPSPSRGG <span style="background-color: #00FFFF;">DT</span> HNN <span style="background-color: #00FFFF;">NIST</span> IFP <span style="background-color: #00FFFF;">FLRNGG</span> IP <span style="background-color: #00FFFF;">SSL</span> PP <span style="background-color: #00FFFF;">L</span> R <span style="background-color: #00FFFF;">IS</span> NSA <span style="background-color: #00FFFF;">PVTP</span> FP <span style="background-color: #00FFFF;">VSSP</span> SS <span style="background-color: #00FFFF;">K</span> H <span style="background-color: #00FFFF;">PK</span> T <span style="background-color: #00FFFF;">L</span> <span style="background-color: #00FFFF;">C</span> TW <span style="background-color: #00FFFF;">GECFTNQ</span> SAK <span style="background-color: #00FFFF;">QSMSS</span> F <span style="background-color: #00FFFF;">NYP</span> F <span style="background-color: #00FFFF;">Y</span> AV <span style="background-color: #00FFFF;">SAPASPTHH</span>	300	
BraA08g028240.3C	<b>QVSP</b> SSSSFPSPSRGG <span style="background-color: #00FFFF;">DT</span> HNN <span style="background-color: #00FFFF;">NIST</span> IFP <span style="background-color: #00FFFF;">FLRNGG</span> IP <span style="background-color: #00FFFF;">SSL</span> PP <span style="background-color: #00FFFF;">L</span> R <span style="background-color: #00FFFF;">IS</span> NSA <span style="background-color: #00FFFF;">PVTP</span> FP <span style="background-color: #00FFFF;">VSSP</span> SS <span style="background-color: #00FFFF;">K</span> H <span style="background-color: #00FFFF;">PK</span> T <span style="background-color: #00FFFF;">L</span> <span style="background-color: #00FFFF;">C</span> TW <span style="background-color: #00FFFF;">GECFTNQ</span> SAK <span style="background-color: #00FFFF;">QSMSS</span> F <span style="background-color: #00FFFF;">NYP</span> F <span style="background-color: #00FFFF;">Y</span> AV <span style="background-color: #00FFFF;">SAPASPTHH</span>	222	
Consensus	qvp <span style="background-color: #00FFFF;">psssf</span> psps <span style="background-color: #00FFFF;">rggd</span> thnn <span style="background-color: #00FFFF;">nistifp</span> flr <span style="background-color: #00FFFF;">nggip</span> ssl <span style="background-color: #00FFFF;">pp</span> l <span style="background-color: #00FFFF;">r</span> is <span style="background-color: #00FFFF;">nsa</span> p <span style="background-color: #00FFFF;">vtp</span> p <span style="background-color: #00FFFF;">vss</span> p <span style="background-color: #00FFFF;">ss</span> h <span style="background-color: #00FFFF;">pk</span> l <span style="background-color: #00FFFF;">tw</span> gec <span style="background-color: #00FFFF;">ftn</span> gsak <span style="background-color: #00FFFF;">qsmss</span> f <span style="background-color: #00FFFF;">nyp</span> fyav <span style="background-color: #00FFFF;">sapaspthh</span>		
BrrA08g331200.1	<b>RQFNAPPATI</b> PEC <span style="background-color: #00FFFF;">DESCDASTV</span> D <span style="background-color: #00FFFF;">SGH</span> W <span style="background-color: #00FFFF;">ISFQK</span> F <span style="background-color: #00FFFF;">SQQQP</span> FLGV <span style="background-color: #00FFFF;">SAV</span> P <span style="background-color: #00FFFF;">ASP</span> T <span style="background-color: #00FFFF;">FLN</span> VL <span style="background-color: #00FFFF;">VR</span> PP <span style="background-color: #00FFFF;">PK</span> Q <span style="background-color: #00FFFF;">LS</span> P <span style="background-color: #00FFFF;">NT</span> G <span style="background-color: #00FFFF;">AT</span> QE <span style="background-color: #00FFFF;">IGQSS</span> E <span style="background-color: #00FFFF;">F</span> K <span style="background-color: #00FFFF;">F</span> E <span style="background-color: #00FFFF;">NS</span> Q <span style="background-color: #00FFFF;">VKP</span> W <span style="background-color: #00FFFF;">E</span> GER <span style="background-color: #00FFFF;">I</span> H <span style="background-color: #00FFFF;">DV</span> A <span style="background-color: #00FFFF;">MEDL</span>	400	
BraA08g028240.3C	<b>RQFNAPPATI</b> PEC <span style="background-color: #00FFFF;">DESCDASTV</span> D <span style="background-color: #00FFFF;">SGH</span> W <span style="background-color: #00FFFF;">ISFQK</span> F <span style="background-color: #00FFFF;">SQQQP</span> FLGV <span style="background-color: #00FFFF;">SAV</span> P <span style="background-color: #00FFFF;">ASP</span> T <span style="background-color: #00FFFF;">FLN</span> VL <span style="background-color: #00FFFF;">VR</span> PP <span style="background-color: #00FFFF;">PK</span> Q <span style="background-color: #00FFFF;">LS</span> P <span style="background-color: #00FFFF;">NT</span> G <span style="background-color: #00FFFF;">AT</span> QE <span style="background-color: #00FFFF;">IGQSS</span> E <span style="background-color: #00FFFF;">F</span> K <span style="background-color: #00FFFF;">F</span> E <span style="background-color: #00FFFF;">NS</span> Q <span style="background-color: #00FFFF;">VKP</span> W <span style="background-color: #00FFFF;">E</span> GER <span style="background-color: #00FFFF;">I</span> H <span style="background-color: #00FFFF;">DV</span> A <span style="background-color: #00FFFF;">MEDL</span>	322	
Consensus	rqfnappatipecdesdastvd <span style="background-color: #00FFFF;">sghw</span> is <span style="background-color: #00FFFF;">fqkif</span> sq <span style="background-color: #00FFFF;">qqp</span> f <span style="background-color: #00FFFF;">lg</span> vs <span style="background-color: #00FFFF;">av</span> p <span style="background-color: #00FFFF;">asp</span> t <span style="background-color: #00FFFF;">fnl</span> vr <span style="background-color: #00FFFF;">pp</span> v <span style="background-color: #00FFFF;">pk</span> q <span style="background-color: #00FFFF;">ls</span> p <span style="background-color: #00FFFF;">nt</span> g <span style="background-color: #00FFFF;">at</span> qe <span style="background-color: #00FFFF;">igqss</span> e <span style="background-color: #00FFFF;">f</span> k <span style="background-color: #00FFFF;">f</span> e <span style="background-color: #00FFFF;">ns</span> q <span style="background-color: #00FFFF;">vkp</span> w <span style="background-color: #00FFFF;">e</span> ger <span style="background-color: #00FFFF;">ih</span> dv <span style="background-color: #00FFFF;">amedl</span>		
BrrA08g331200.1	<b>EITLGN</b> AKGR		410
BraA08g028240.3C	<b>EITLGN</b> AKGR		332
Consensus	el <span style="background-color: #00FFFF;">t</span> l <span style="background-color: #00FFFF;">gn</span> ak <span style="background-color: #00FFFF;">gr</span>		

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