

Supplemental Figure 4

PTD/Cell Targeting peptide, DRBD Motif 1, DRBD Motif 2, HA Tag

DRBD

MAGDLSAGFFMEELNTYRQKQGVVLKYQELPNSGPPHDRRFTFQVIIDGREFPEGEGRS
KKEAKNAAAKLAVEILNKEKKA_{AALEHHHHHH}

PTD-DRBD

MGRKKRRQRRRGHSGRKRRQRRRGHIYPYDVPDYAGDPGRKKRRQRRRGDPAGDLS
AGFFMEELNTYRQKQGVVLKYQELPNSGPPHDRRFTFQVIIDGREFPEGEGRSKKEAKNA
AAKLAVEILNKEKKA_{AALEHHHHHH}

PPS-DRBD

MGDSPAHPSGHSGDSPAHPSGHIGDSPAHPSGAPAGDLSAGFFMEELNTYRQKQGVVL
KYQELPNSGPPHDRRFTFQVIIDGREFPEGEGRSKKEAKNAAAKLAVEILNKEKKA_{AALE}
HHHHHH

2xDRBD

MGAPAGDLSAGFFMEELNTYRQKQGVVLKYQELPNSGPPHDRRFTFQVIIDGREFPEG
GRSKKEAKNAAAKLAVEILNKEKKAVSPLLLTTNSSEG_{LSMGNYIGLINRIAQKKRLTVNY}
EQCASGVHGPEGFHYKCKMGQKEYSIGTGSTKQEAQQLAAKLAYLQILSEETSVKSDHH
HHHH

PTD-2xDRBD

MGRKKRRQRRRGHSGRKRRQRRRGHIYPYDVPDYAGDPGRKKRRQRRRGAPAGDLS
AGFFMEELNTYRQKQGVVLKYQELPNSGPPHDRRFTFQVIIDGREFPEGEGRSKKEAKN
AAAKLAVEILNKEKKAVSPLLLTTNSSEG_{LSMGNYIGLINRIAQKKRLTVNYEQCASGVHG}
PEGFHYKCKMGQKEYSIGTGSTKQEAQQLAAKLAYLQILSEETSVKSDHHHHHH

PPS-2xDRBD

MGDSPAHPSGHSGDSPAHPSGHIGDSPAHPSGAPAGDLSAGFFMEELNTYRQKQGVVLK
YQELPNSGPPHDRRFTFQVIIDGREFPEGEGRSKKEAKNAAAKLAVEILNKEKKAVSPLLLT
TTNSSEG_{LSMGNYIGLINRIAQKKRLTVNYEQCASGVHGPEGFHYKCKMGQKEYSIGTG}
TKQEAQQLAAKLAYLQILSEETSVKSDHHHHHH

Supplemental Figure 4, cont.

1xTAT-2xDRBD

MGRKKRRQRRRGAPAGDLSAGFFMEELNTYRQKQGVVLKYQELPNSGPPHDRRFTFQVI
IDGREFPEGEGRSKKEAKNAAAKLAVEILNKEKKAVSPLLLTTNSSEGLSMGNYIGLINRIA
QKKRLTVNYEQCASGVHGPEGFHYKCKMGQKEYSIGTGSTKQEAQQLAAKLAYLQILSEE
TSVKSDHHHHHH

Pen-2xDRBD

MGRQIKIWFQNRRMKWKKGGSGGSGGSGGGSGGGSGSGAPAGDLSAGFFME
ELNTYRQKQGVVLKYQELPNSGPPHDRRFTFQVIIDGREFPEGEGRSKKEAKNAAAKLAV
EILNKEKKAVSPLLLTTNSSEGLSMGNYIGLINRIAQKKRLTVNYEQCASGVHGPEGFHYK
CKMGQKEYSIGTGSTKQEAQQLAAKLAYLQILSEETSVKSDHHHHHH

B2-2xDRBD

MGGHKVKRPKGGHSGGHKVKRPKGHHIGHKVKRPKGGAAPAGDLSAGFFMEELNTYRQ
KQGVVLKYQELPNSGPPHDRRFTFQVIIDGREFPEGEGRSKKEAKNAAAKLAVEILNKEKK
AVSPLLLTTNSSEGLSMGNYIGLINRIAQKKRLTVNYEQCASGVHGPEGFHYKCKMGQKE
YSIGTGSTKQEAQQLAAKLAYLQILSEETSVKSDHHHHHH

Supplemental Fig. 3. Primary amino acid sequence of each of fusion protein.
TAT or receptor/cell targeting motifs are shown in red. PKR DRBD motif 1 is
shown in blue and DRBD motif 2 in orange. The HA epitope is in green,
and linker regions and the six-histidine tags are shown in black.