

## **Supplemental Table 2**

for Resilience of BST-2/Tetherin structure to single amino acid substitutions

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Table 2: Designed mutant description table

Mutation Sites	Function Region	Local Structural Defects	Functional Defect	Reference
Asp55Ala Gly56Ala Leu57Ala Arg58Ala	NA	NA	Y	Hammonds, et al., 2012
Cys63Ala Asn64Ala Arg65Ala Val66Ala	Disulfide and Glycosylation sites	NA	Y	Hammonds, et al., 2012
Val74Ser Val84Ser Leu137Ser Leu144Ser	NA	NA	Y	Hammonds, et al., 2012
Arg54/58/64Asp	NA	NA	Y	Yang, et al., 2010
Glu76Arg Glu85Arg Asp83Arg	NA	NA	Y	Yang, et al., 2010
Glu76Arg Glu85Arg Asp83Arg Arg54/58/64Asp	NA	NA	Y	Yang, et al., 2010
Gln110Cys	Proposed region of flexibility	Y	Y	Welbourn, et al., 2016; Ozcan and Berndsen, 2017
Gly118Cys	NA	Y	Y	Welbourn, et al., 2016