## Structural analysis of the amino acid residues mutated in

## hOGG1 variants

Residue	Location	Primary contacts	Distance from oxoG <sup>1</sup>	Role
Arg46	Loop between αA and βB (interior core)	Glu139 (αE) His179 (βG)	14 Å	Structural
Ala85	Loop between βE and αB (surface)	Solvent	38 Å	Unknown
Arg154	αF (invades DNA helix)	Estranged cytosine	11 Å	Specificity
Ser232	Loop between αJ and αK (surface)	Solvent Glu235(αK)	22 Å	Unknown

<sup>1</sup>Measured from closest atom in residue to C1' of deoxyribose attached to 80xoG base