

	1	11	21	31	41	51	61
Dnase/D157G	MTALSALTRS	LSRGLVALVL	LCNLTFTVQA	AEIQVGFSP	GSAEQLVLNV	IQRARQQIRL	MAYSFTS
	:
Nuc	MK K LATWLLA	AAFTTAALP	--- AFAVEP	S-VQVGYSPE	GSARVLVLSA	IDSAKTSIRM	MAYSFTAEDI
	71	81	91	101	111	121	131
Dnase/D157G	VKALVQAKRR	GVDVQVVVDA	HGNDNRASRA	AMNLLANAQI	PVRTNGAYKI	QHDKVIITDG	QNVETGSENY

Nuc	MKALVAAKRR	GVDVKIVIDE	HGNIGRASIA	AMNYIANSKI	PLRTDSNFEI	QHDKVIIVDN	VTVETGSENF
	141	151	161	171	181		
Dnase/D157G	SASAAKANS	NAVVMWGVPA	VASVYLEHWQ	SRWVQGQPYQ	PTY		
		
Nuc	IKFAETKNS	NAVVIWNMPK	LAESFLEHWQ	DRWNQGRDYR	SSY		

Figure S1 – Sequence alignment of DNase/D157G vs. Nuc from *S. enterica* subsp. *enterica* serovar *Typhimurium*. Amino acids of the conserved HxK(x)₄D(x)₆GSxN motif are boxed in red, while potential amino acid residues of the substrate groove are boxed in light blue (inner ring) and dark blue (outer ring).