

**Table S4: List of rescue templates**

Gene	crRNA	Description	Sequence
<i>dpy-10</i>	589	Co-CRISPR misense mutation	ssODN from Arribere <i>et al.</i> 2014 (See Suppl. File S1)
<i>gtbp-1</i>	728	Ollas tag insertion at the STOP codon	GGCGGTTGCGGTGGTCTCCACGAGGAGGAATGCGTAGCGGTTTCCAAAATGCGGGAC AAAAT---Ollas---tagaagcttccgttctcttttctcttctgtaag
<i>gtbp-1</i>	728	mTagGFP::TEV::3Xflag insertion at the STOP codon	GGCGGTTGCGGTGGTCTCCACGAGGAGGAATGCGTAGCGGTTTCCAAAATGCGGGAC AAAAT---mTagGFP::TEV::3Xflag---tagaagcttccgttctcttttctcttctgtaag
<i>gtbp-1</i>	728	mCherry insertion at cut	GGTTCGGGTGGTGTCTCCACGAGGTGGTATGCGC---mCherry--- AGCGGTTTCCAAAATGCGGGACAAAATtagaag
<i>gtbp-1</i>	772	mCherry insertion at cut	CTTCGCGGTGGCGGTTCGGGTGGTGTCTCCACGA---mCherry--- <b>GGTGGT</b> ATGCGCAGCGGTTTCCAAAATGCGGGAC
<i>gtbp-1</i>	728	eGFP insertion at cut	GGTTCGGGTGGTGTCTCCACGAGGTGGTATGCGC---eGFP--- AGCGGTTTCCAAAATGCGGGACAAAATtagaag
<i>fbf-2</i>	689	tagRFP insertion at cut (STOP codon)	CAAATTTTCTTCTCCGGTAGTCACGGCGATGAT---tagRFP--- <u>taggtgga</u> acttctcaccataaatctcatcc
<i>GFP/eGFP</i>	719 and 720	Replacement by tagRFP	GGAGAAGAACTTTTCACTGGAGTTGTCCCAATT---tagRFP--- <u>GTCCTTCTGAGTTT</u> GTAACAGCTGCTGGGATTAC
<i>glh-1</i>	723	tagRFP insertion at the STOP codon	CCAGTGACCAACTCAAGTCCCTCAAGACGAGGAAGGATGG---tagRFP--- tagaaaaccgaccaattgatagtgtttcgatttataatgc
<i>htp-3</i>	699	TEV::eGFP::myc::3Xflag insertion at the STOP codon	CCAGTCGCCGAACATGCCAAGTAGAAGAGGAAAC---TEV::eGFP::myc::3Xflag--- <u>tgaacgatttctgg</u> acaatcgtgtacaattatc
<i>gtbp-1</i>	691 and 728	<i>gtbp-1</i> replacement by GFP::H2B	aaATGCAGATAACCTCGGCCTTAACCCAGAATAAG---GFP::H2B--- <u>taacagcgg</u> tttccaaaatgctgggacaaaattagaagc

Lower case (non-coding), upper case (coding), red (silent mutations in the repair template to prevent Cas9 re-cutting), blue (insertion), bold (PAM sequence), underlined (crRNA sequence).