Design Snapshot - 59753 (61377) - isogenic control line generation for AG25367 line

Summary

Field	Value
project_id	59753 (61377) - isogenic control line ge neration for AG25367 line
author	Narasimha Telugu, Maria Hofstätter
timestamp_unix	1763657963
design_platform	Benchling
cas_variant	Hi.FiCas9
pam_rule	NGG
design_source_url	https://benchling.com/simha25/f/lib_ihxDjfHL-2025_ag_diecke/seq_ tjJnYpS0-psen1-ensg00000080815/edit
off_target_review	-
design_decision	-

mutation

Field	Value
gene	PSEN1 (ENSG00000080815)
transcript	PSEN1-001 (ENST00000324501, CCDS9812)
genome_assembly	GRCh38
edit_intent	SNP-KI
hgvs_c	PSEN C to A
hgvs_p	(A246E)
region_context	Exon7
base_editor_window	-
pegRNA_notes	-

selected_guides

selected_guides 1

id	PSEN1_A246E_KI_gRNA1
sequence	TGAGCCACTCAGTCCATTCA
pam	AGG
strand	-
genomic_locus	-
distance_to_edit_bp	0
on_target_algo	-
on_target_score	-
off_target_algo	-
off_target_score	-
notes	-

selected_guides 2

id	PSEN1_A246E_KI_gRNA2
sequence	ACCTCCCTGAATGGACTGAG
pam	TGG
strand	+
genomic_locus	-
distance_to_edit_bp	0
on_target_algo	-
on_target_score	-
off_target_algo	-
off_target_score	-
notes	-

additional_guides

No entries

primer_pairs

primer_pairs 1

name	PSEN1_A246E
forward	CCT ATA ACG TTG CTG TGG ACT
reverse	GAT TAC AGG CAT GAG CTA CCA
expected_amplicon_bp	412

donors

donors 1

donor_type	ssODN
sequence	PSEN1_A246E_ssODN2: CCATTCACTGGAAAGGTCCA CTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCC TCATGGCCCTGGTGTTTATCAAGTACCTTCCTGAATGGAC TGCGTGGCTCATCTTGGCTGTGATTTC
length_nt	147
asymmetry	Assymetric 31/96
strand	non-PAM
introduces_silent_pam_or_seed_mut	Yes
hdr_notes	-

donors 2

donor_type	ssODN
sequence	PSEN1_A246E_ssODN2: AAAGAAAACACTCCAGTGGG GCATTCCTGTGACAAACAAATTATCAGTCTTGGGTTTTAC CATATACTGAAATCACAGCCAAGATGAGCCACGCTGTCCA TTCTGGGAGGTACTTGATAAACACCAG
length_nt	147
asymmetry	Assymetric 31/96
strand	non-PAM strand
introduces_silent_pam_or_seed_mut	Yes
hdr_notes	Yes

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