

Supplemental information

Table 1S – Primers for construction AGAT Ex9 grna, GATMex9nluc Donor, primers to detect insertion of donor and expression of AGAT nluc fusion mRNA

PRIMER ID	PRIMER SEQUENCE ('5->3')	PURPOSE
GRHUGATM-EX9FOR	CACCGCAGTCCTACTTGGACTGAAC	gRNA targeting ex9 GATM
GRHUGATM-EX9REV	AAACGTTCACTCCAAGTAGGACTGC	gRNA targeting ex9 GATM
AGATEX9LEFTFORASCI	CCTAGGCGCGCCCTCTGTTGACTTTTGGAGAAG	Left donor arm
AGATLEFTDONOR REV2	GGAGTGAAGACCTACGCTGCCCCCTCCGCCGTCCAAGTAGGACTGTAAG	Left donor arm
NLUC_AGAT3' UTR-REV	ccacaagCTCCATCAGGCCTGTTCACTAGACGTTGATGCGAGCTGAAGC	Nluc insertion
AGAT_CT_NLUC-FOR	TACTTGGACGGCGGAGGGGCGAGCGTGTTCACACTCGAAGATTTC	Nluc insertion
AGATEX9RIGHTREVPACI	GGAGTTAATTAAGAGACAATTACCTGGTTCTACTTAGG	Right donor arm
AGATRIGHTDONORFWD	TGGAGTGAAGACGTAATGAACAGGCCTGATGGAG	Right donor arm
QPCREX9GATMREV2	ggcttacgaccctgttaaggag	Detect AGAT-nluc fusion mRNA
QPCREX9GATM REV	agaatgaacctgtcccctaagc	Detect AGAT-nluc fusion mRNA
QPCREX9GATMFOR	gtatcactaccattaaagttaac	Detect AGAT-nluc fusion mRNA
QPCREX8GATMFOR	gttatggtggatgccaatgaag	Detect AGAT-nluc fusion mRNA
GATM-GFP-INS1-FOR	atctgctcagtcattgacttgtgaatag	Detect insertion donor in ex9
GATM-GFP-INS1-REV	gagacaattacctggttctacttagg	Detect insertion donor in ex9

Figure 1S

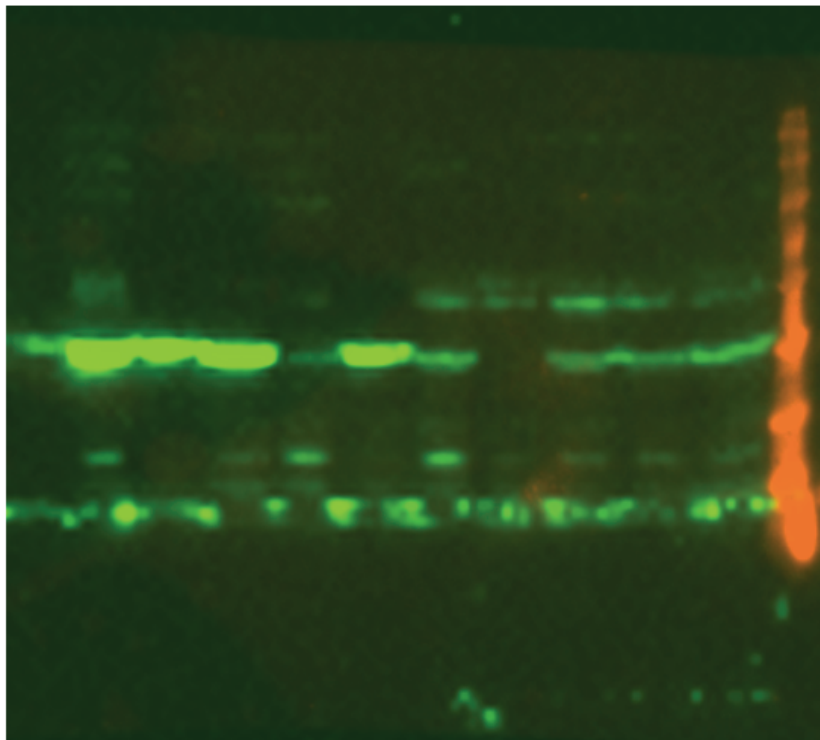
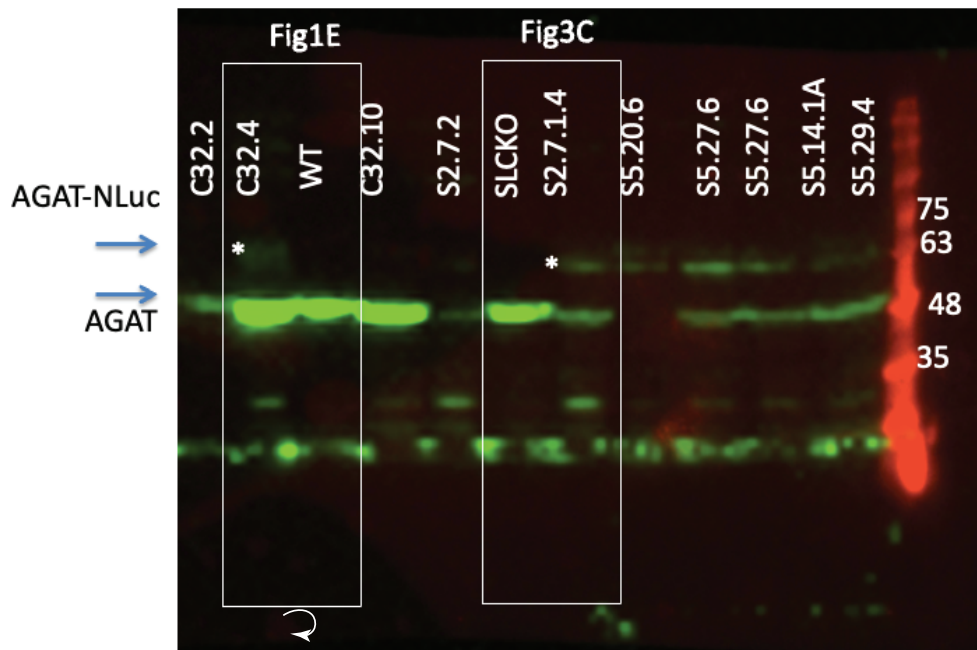


Figure 1S. Full length western blots used to generate panels in Figure 1E and figure 3C. Lanes used in these figures are denoted by corresponding arrows. To highlight the bands corresponding to AGAT-NLuc the lower two panels represent the same gel with the brightness increased and contrast increased, respectively.

1. Genbank OR492634 AGAT NLuc Donor

LOCUS Exported 1581 bp DNA linear UNA 28-AUG-2023

DEFINITION natural linear DNA

ACCESSION .

VERSION .

KEYWORDS .

SOURCE natural DNA sequence

 ORGANISM unspecified

REFERENCE 1 (bases 1 to 1581)

 AUTHORS .

 TITLE Direct Submission

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 <https://www.snapgene.com>

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2. HAP1-WT_AGAT_NLUC_C8 32 4

LOCUS Exported 1020 bp DNA linear UNA 28-AUG-2023

DEFINITION natural linear DNA

ACCESSION .

VERSION .

KEYWORDS .

SOURCE natural DNA sequence

ORGANISM unspecified

REFERENCE 1 (bases 1 to 1020)

AUTHORS .

TITLE Direct Submission

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<https://www.snapgene.com>

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3. Genbank OR492634 CrTKO AGAT-NLUC

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2023
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ACCESSION   .
VERSION     .
KEYWORDS    .
SOURCE      natural DNA sequence
  ORGANISM  unspecified
REFERENCE   1  (bases 1 to 565)
AUTHORS     .
TITLE       Direct Submission
JOURNAL     Exported Aug 28, 2023 from SnapGene Viewer 5.3.2
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