**Supplemental Table 2**. Summary of 25 independent gene edited lines. Eight T1 seeds with GFP fluorescence were pooled for each line for DNA isolation, PCR amplification, and Sanger sequencing. Highlighted indicate lines with gene editing event.

**ICE Score**, which represents the CRISPR editing efficiency (also known as indel frequency, or the percentage of the cell population that has insertions or deletions).**Knockout Score** (KO Score). The Knockout Score represents the proportion of cells that have either a frameshift-inducing indel or a large indel in a protein-coding region that is 21 bp or greater in length that are likely to generate a complete loss-of-function mutation.

The KO score is a useful metric for researchers that are interested in understanding how many of the contributing indels are likely to result in a functional KO of the targeted gene.

The random nature of the non-homologous end joining (NHEJ) repair pathway that is most commonly used to repair double-strand breaks (DSB) induced by Cas9 generates many different types of indels. Therefore, generation of an indel in the target gene being edited does not necessarily mean that expression of the encoded protein will be knocked out, so measurement of editing efficiency or indel frequency are not the best metrics to evaluate success in CRISPR knockout experiments.

If the goal of your genome engineering work is to generate loss-of-function mutations by knocking out a gene with CRISPR-Cas9, indel analysis using the ICE Knockout Score is the most useful approach.

For a detailed explanation of the CRISPR Data Analysis Scores. Please visit the website

https://www.synthego.com/blog/crispr-knockout-score#ice-score-shows-overall-editing-efficiency

No.	Label	ICE-Score	KO-Score	gRNA1	Grna2
				edited	edited
				event	event
<mark>1</mark>	<mark>14-VAR-1-F_R</mark>	<mark>20</mark>	<mark>14</mark>	yes	yes
2	3-VAR-1-F_R	0	0		
3	1-VAR-1-F	0	0		
4	9-VAR-1-F	0	0		
5	10-VAR-1-F	0	0		
<mark>6</mark>	20-VAR-1-F_R	<mark>26</mark>	21	yes	yes
7	11-VAR-1-F_R	0	0		
8	5-VAR-1-F_R	0	0		
9	18-VAR-1-F_R	0	0		
10	19-VAR-1-F	0	0		
11	8-VAR-1-F	0	0		
12	15-VAR-1-F_R	0	0		
<mark>13</mark>	2-VAR-1-F_R	<mark>50</mark>	<mark>50</mark>	yes	yes
<mark>14</mark>	4-VAR-1-F_R	<mark>67</mark>	<mark>49</mark>		
15	12-VAR-1-F	0	0		
16	17-VAR-1-F	0	0		

<mark>17</mark>	23-VAR-1-F_R	<mark>20</mark>	<mark>16</mark>	<mark>yes</mark>	<mark>yes</mark>
18	7-VAR-1-F_R	0	0		
19	6-VAR-1-F_R	0	0		
<mark>20</mark>	<mark>16-VAR-1-F</mark>	<mark>44</mark>	<mark>41</mark>	<mark>yes</mark>	<mark>yes</mark>
<mark>21</mark>	<mark>21-VAR-1-F</mark>	<mark>73</mark>	<mark>73</mark>	<mark>yes</mark>	<mark>yes</mark>
<mark>22</mark>	<mark>26-VAR-1-F_R</mark>	<mark>23</mark>	<mark>17</mark>	yes	yes
<mark>23</mark>	<mark>25-VAR-1-F</mark>	<mark>26</mark>	<mark>20</mark>	<mark>yes</mark>	<mark>yes</mark>
<mark>24</mark>	<mark>24-VAR-1-F_R</mark>	<mark>57</mark>	<mark>57</mark>	yes	yes
25	22-VAR-1-F_R	0	0		