CRISPR Stable Knockout Cell Line Generation

*Please open this form with Adobe Acrobat, Adobe Professional, FoxIt or some other alternatives in order for the save function to be available. Adobe Reader does not support the save function.
**Please complete this form and email to quotes@abmgood.com

Customer Information

Name:

Customer ID: **Phone Number:**

Shipping/Billing Address: **Organization:**

Cell Line Selection

**Please select from Option 1, 2, or 3

☐ **Option 1: Select from one of our Cas9-expressing cell lines:**

☐ HEK293 ☐ HEK293T ☐ A549 ☐ HeLa ☐ MDCK
☐ A375 ☐ HepG2 ☐ HT1080 ☐ U87MG

☐ **Option 2: Select from one of our Immortalized Cell Lines (additional charges will apply):** ABM Cat. No:

☐ **Option 3: Provide your own cell line:** Name/species of cell line you will provide:

Cell Line Properties - Please complete if option 3 is selected

Passage Number: **Doubling Time:**

Culture Protocol Required for Cell Growth: Base Medium:

Additional Components Required:

Do you need ABM to follow any special cell culture routine? ☐ Yes, see below. ☐ No

If yes, please provide detailed protocol, instructions, or culturing requirements:

Are the cells prone to irreversible differentiation or morphological changes? ☐ Yes, see below. ☐ No ☐ Not Sure

If yes, how to avoid unwanted change(s):

Cell Line Properties Continued:

Growth condition of the host cell line: ☐ Adherent ☐ Suspension ☐ Both

Does the cell line express antibiotic resistance marker? ☐ Yes, it is resistant to: ☐ No

Plating Efficiency:

Can the cell line form single cell clones? ☐ Yes ☐ No ☐ Not Sure

Are the cells tolerant to single cell dilution? ☐ Yes ☐ No ☐ Not Sure

Will serial dilution affect cell growth rate? ☐ Yes ☐ No ☐ Not Sure

Is the cell line easy or difficult to transduce? ☐ Easy ☐ Difficult ☐ Not Sure

Is the cell line easy or difficult to transfect? ☐ Easy ☐ Difficult ☐ Not Sure

Give details of transfection method/reagents used (if applicable):

Target Gene Information:

Name of gene to be knocked out: **NCBI Accession Number:**

Is the gene essential to cell survival? ☐ Yes, see below ☐ No ☐ Not Sure

If yes, how to rescue the clones:

Does knockout of the gene affect cell growth? ☐ Yes, see below ☐ No ☐ Not Sure

If yes, please specify:

Gene copy number of host cell line: ☐ One Allele ☐ Two Alleles ☐ Multiple Alleles (Indicate Number): ☐ Not Sure

Target Gene Editing:

***By default, sgRNA and Cas9 will be stably integrated into the host cell genome. Transient or inducible expression can be accommodated, and will incur additional charges.*

Is stable integration of sgRNA suitable? ☐ Yes ☐ No, I would prefer transient

Is stable integration of Cas9 suitable? ☐ Yes ☐ No, I would prefer transient ☐ No, I would prefer inducible

Deliverables:

***Unless any Add-On Service(s) is specified, only the following two deliverables will be provided by default.*

1.) Sequence verified knockouts (at least 1 clone, 2 vials per clone).

2.) Microbial/sterility tested with a service report.

Add-On Services:

***Are any of the following add-on services desired? Note that all are optional and will incur additional charges.*

- ☐ **Monoclonal Selection and Expansion**
- ☐ **WT Control Cell Line Expressing Cas9 for Comparison**
- ☐ **Additional Vials of Delivered Clones** (Please indicate number):
- ☐ **Additional Clones** (Please indicate number):
- ☐ **Validation Service by Western Blot (Up to 10 Clones)**
- ☐ **Off-Target Analysis by Whole Genome Sequencing**
- ☐ **Additional rounds of selection and screening by Sanger Sequencing**
- ☐ **STR Profiling of WT and Knock-Out**
- ☐ **CRISPR-Cas9 Targeted Amplicon-Seq**
- ☐ **None**

Additional Comments (optional)